Company profile

a portrait of Krone Filter Solutions GmbH, Germany
Who are we?

We, Krone Filter Solutions, are a global, leading filter manufacturer from Oyten, Germany.

What can we do and what do we offer?

We are proven specialists in the filtration of all liquids. The heart of our philosophy: all our filters are developed and manufactured by us. We thus ensure that they always meet our own high standards of quality and guarantee best filter solutions. With our filters, you protect your most important system parts effectively from soiling.

Constantly increased quality requirements industrial and process-related soiling make filtration an indispensable process step.

Why is our business important?

- Filtration protects the value we create as it protects technical equipment from wear and destruction
- Filtration improves the quality of materials and is often necessary to make them usable. Filtration reduces consumption, thus allowing limited resources to be used economically
- Filtration helps maintain the basis of life by ensuring that unwanted contaminants are kept out of the cycle of nature.

History

Founded in 1990 as Krone Filter by the mechanical engineer Rainer Krone, the company was constantly growing – and developed 3 industrial divisions:
- Industrial filtration
- exhaust gas aftertreatment products plus sales and installation of catalytic converters, diesel particulate filters and SCR system
- and acted as german dealership of MANN+HUMMEL automotive filtration
The principle of filtration is simple and omnipresent in our daily life: a liquid passes through a filter element whose mesh, openings or pores are dimensioned to prevent specific, unwanted particles from getting through. At industrial level, this requires a command of complex processes which are influenced by various material qualities and environmental conditions.

These solutions include quantity, pressure, temperature, density, viscosity, corrosiveness, the level of contamination, particle size and the type of medium being filtered.

Years of systematic research into these influential factors and their interaction enable us to offer a series of filter systems for various applications and fields which are guaranteed to maximise performance, reliability and protection.

As result of the strong international growth and global business in the division Industrial filtration. Krone Filter Solutions was formed in 2009 and moved to much larger manufacturing facilities in Oyten Germany. The company is in private ownership. Krone Filter Solutions developed to a strong international solution provider in liquid filtration and is present worldwide with it’s trademarks Krone Filter®, Bernoulli®, KSF®, KAF®.
We concentrate on what is most important – because our focus is always on the best filter solution for our customer!

We guarantee this by:

- developing and manufacturing all our own filters
- using modern production processes
- using high-quality materials
- employing trained, specialist personnel which we continuously educate and upgrade

Before being delivered, all our self-developed and manufactured filters are subjected to a detailed function FAT’s and quality check on special test benches and equipment.

In addition, we offer short delivery times thanks to a stock of products, spare parts and materials that has been optimised over a period of years. But we also think sustainably. By using high-quality materials and components, we ensure safe and long-lasting use of our products. As example our GRP/FRP products achieve the highest standards of quality through innovative production processes and the world’s only certified filter production according to ASME X RP-stamping. Lloyds Register certified our production range and our products have Lloyds Type Approval and functional design appraisal.
For years, we have met international quality requirements such as:

- PED 97/23/EC-2014/68/EU, ASME VIII DIV 1, ASME BPVC X, GOST, RTN, GL, Lloyds, DNV, ABS, BV etc.
- Modul G certification, CE labelling, CE conformity evaluation of all products
- ATEX
- DOSH, MOM, SASO and many different worldwide inspections
- We manufacture of high-quality welding filter housing and inserts in many material qualities, e.g. 1.4571, SS 316L/TT Hastelloy C4 or Titanium, super duplex, even surpassing them.

An overview of our certifications for you:

- Krone Filters – DIN EN ISO 9001:2008 quality assurance system
- Russian market GOST and RTN, approvals for Krone Filter Solutions since September 2007 and subsequent newest TR TS EAC Approvals, technical passports and TR 032
- LR TA (type approval) and LR design appraisal
- ASME X – World’s only filter manufacturer with certified GRP/FRP production according to ASME X class 1 and class 2/including filters with ASME-RP Stamp
- ASME VIII – Div. 1 with U-Stamp
- OFFSHORE NORSOK standards

Filter KAF® Bernoulli® size 300 JIS 10k for use in hazardous area zone 1 with ATEX & IECEx certified instrumentation & control Filtration of seawater on a LNG carrier build by Hyundai in Korea
What do we stand for?
Our values determine our actions!

- Quality awareness
- Expertise
- Creativity & innovation
- Enviromental awareness
Quality awareness

Our quality awareness applies to product and employee. Our standard of quality is set by the customer, whose opinion is always decisive. We are satisfied with our quality only when our customers are. In order to achieve this, all our staff are technically competent and optimally trained and thus contribute to the company having a customer-oriented presence. As part of the continuous process of improvement, administrative processes, decisions, services and product designs are under permanent review. In this way, optimisation potential is recognised and promptly implemented. Our aim is always to find the optimal solution – with well-founded knowledge, experience and a feel for people and processes, we achieve this goal.

Quality system and inspections

ISO, LR Type Approval and design appraisal, NORSOK, TR TS EAC as well as approvals and inspections by DNV, ABS, RINA, BV and the collaboration with numerous global inspection companies allow us to cater to specific approval requirements.

Our developed project ITP’s control the whole process from project award, manufacturing, FAT’s in final inspection are detailed process control tools – up to delivery of project documentation with the product delivery.
references
Our references, projects and customers
All of this is also reflected in a broad customer spectrum. Our customers come from areas including:

- Chemical industry
- Power plants/energy generation
- Process, air-conditioning and refrigeration technology/HVAC
- Automotive and construction machinery industry
- Shipping processes, Lub oil filtration, Ballast Water
- Petrochemistry
- LNG/LPG/FSRU
- Industrial food production
Expertise

Our aim is always to bring together the highest expertise in our domain and thus to guarantee it for our customers. We foster creative, flexible and hard-working employees and create the suitable environment for innovations in all areas as well as the implementation there of through constant training. We stand out thanks to:

- certified filter quality
- a wide product range
- high delivery capacity
- fast reaction times and delivery reliability and
- expertise in consulting, engineering and production

We achieve operational excellence through processes that are orientated towards value creation and that are constantly improved and we fight bureaucracy wherever we consider it to be inhibitive. We are thus quick in the implementation of new ideas on marketable products, in processing customer enquiries and in internal cooperation. Moreover, continuous improvements and changes strengthen our expertise.

Environmental awareness

Environmental awareness is also important! We act responsibly towards society and the environment. Our quality is based on well-founded training, many years of practical application and experience as well as networks and cooperation. QUALITY is A MUST for us. We are conscious of our responsibility – for the quality of our work, the success and the name of our customers, our environment and for the people we work with.
Creativity and innovation

Willingness to take on responsibility and to take risks promotes entrepreneurial thinking. It also offers us new perspectives and the chance to generate creative solutions even for unusual requirements and problems. We thus want to be the preferred partner for our customers, through creative and innovative solutions and maximum quality.

Our innovation management stands for systematic intensification and promotion of idea generation and project work. We are an important development partner of our customers. We develop customer-orientated solutions, make active use of synergies and let our expertise influence all phases of a project.

We are internationally aligned. In the implementation of our growth strategy we are open to partnerships and alliances. Optimal results can be achieved only in a partnership-based collaboration characterised by team spirit and trust. We invest actively in the improvement of our abilities, knowledge and process techniques and always develop solutions that correspond to the current state of scientific knowledge and that meet the needs of our customers in the best manner.

Our Patents – research & development

We believe innovation is essential to resolve clients’ needs today and in the future.

Krone Filter Solutions is constantly working in R&D projects with clients and on it’s on and has published several patents.

KAF-S Bernoulli® Filters 20” for a power plant on the Suez Canal for 3,000 m³/h at 500 micron

Our development – small footprint KAF® Bernoulli®. The radial movement of a motor is transferred to a axial disc movement.
We develop and manufacture filters for all liquids. Our main filter lines are:

- casted basket filters and casted duplex basket filters for liquids
- fabricated customized tailor made welded filters
- self-cleaning cooling water filters in different materials

Our strongest field of specialisation is cooling seawater filtration. Our high level of expertise of our staff, professional advice tailored to you, aftersales service as well as the vigorous development of our filter systems, taking the feedback of our customers into account.

Self cleaning filter

- KAF® Self cleaning Bernoulli®-filter
- KRF Backflush-filter

Single filter

- KSF® Single basket filter (flanged)
- KMF Threaded basket filter
- KWF Welded/custom made basket filter
- KWF-Inline Inlet flange and outlet flange inline
**Duplex filter**

- KDF-K: Duplex filter
- KDF-V: Valve switch duplex filter

**Other filter solutions**

- KBF: Bag filter
- KOW: Oil and water separator
- SEPARATOR: Centrifugal separator

**Others / accessoires**

- DeltaP: Differential pressure indicator
  Contaminant level indicator
- Filterbags

**Strainer inserts**

- Basket strainers
- Ring strainers
- Wedged wire inserts
Welding shop

Krone Filter Solutions welded filters are manufactured according to all worldwide requested standards. All approvals according to EN, Modul G, ASME, U-STAMP, LR, DNV, ABS, NORSOK and EAC, TR 032 are at hand.
Foundry

LR and ISO-certified, state-of-the-art automated and apart from that our precise hand mould casting processes, our own flexible pattern shop, in house mechanical processing are our strength. Final product stress test and hydro testing of all products and manufacturing stages are mandatory in our workshop.

KSF® family DN 15–800

www.krone-filter.com

Foundry LR Approval for castings

KSF® is a Krone Filter Solutions registered trademark
Flexible and innovative ASME X-certified production processes in contact moulding for small series and standard self cleaning filter range.

GRP/FRP-MONOLITH® is a Krone Filter trademark for the GRP/FRP vessels made with reduced joints.

14" GRP Filter KAF® Bernoulli® for a Urea plant in Qatar

GRP contact moulding fabrication

Finite element stress analysis of a GRP/FRP filter vessel

20" KWF-inline for Yanbu industrial complex in Saudi Arabia
Filter insert / Filter basket manufacturing

A filter is only as good as its basket!

State-of-the-art water-cooled resistance welding machines and the use of state-of-the-art stainless steel filter cloth & high-quality deep-drawn modular moulded parts form the core of our high-quality flexible screen workshop – which also manufactures special screens in accordance with the customer’s own specifications.

A cooperation of Krone Filter Solutions with the German stainless steel mesh manufacturer Haver & Boecker guarantees not only highest quality mesh performance but also constant development of new geometries.

Krone uses high quality Haver & Boecker MESH for all products with SS mesh inserts like MINIMESH® HIFLO-S 25 micron.
Some few of our worldwide filter-
impressions