



J. Heinr. Kramer Group

Bremerhaven / Ahlhorn / Hamburg

Germany

PIPE CONSTRUCTION AND SPECIALISED STEELWORK FOR:

Refineries

Oil and gas industry

Offshore

Ship-building



THE J.H.K. GROUP A STRONG ALLIANCE SINCE 1901

In 1901, a coppersmith by the name of Johann Heinrich Kramer founded J.H.K. in Bremerhaven, Germany. Over the decades, the company developed into a group with international operations. Today, the J.H.K. Group of companies is already family-owned in third and fourth generation by the family Kramer, Bremerhaven, managed by Mr. Ingo Kramer.

The J.H.K. Group consists of five companies whose core areas of expertise are engineering, pipeline construction, specialised steelwork, mineral oil transshipment facilities and industrial coatings. A defining characteristic of the group's successful activities over the years has been its ability to identify market niches, meet the special needs of its customers, and its commitment to high-quality products. Our customers benefit from our broad range of bundled expertise. Quality assurance and passion for innovation define our successful comprehensive range of products and services, as do our highly motivated specialists, technicians and engineers who work to uphold the company's high standards.

**BY BUNDLING THE EXPERTISE OF THE J.H.K. COMPANIES,
OUR GROUP IS CAPABLE OF HANDLING COMPLEX PROJECTS
WITH EXACTING REQUIREMENTS.**

THE J.H.K. GROUP

J.H.K. Anlagenbau und Service GmbH & Co. KG	G & K Montagen- gesellschaft GmbH & Co. KG	J.H.K. Industrie- beschichtung GmbH & Co. KG	J.H.K. Engineering GmbH & Co. KG	M+F Technologies GmbH
--	---	---	--	-----------------------------



J.H.K. PRODUCTS AND SERVICES

ENGINEERING

- Construction of steam boilers
- Load calculations for structures
- Detail engineering and documentation

SPECIALISED STEELWORK

- Boiler construction
- Large-scale structures that can only be transported by sea
- Towers and platforms fully fitted and ready for operation
- Melting furnaces for steel and aluminium
- Waste conveyor systems
- Hoisting equipment, special designs
- Electrical installations

PIPELINE CONSTRUCTION

- Pre-fabrication and assembly of pipelines made from any metallic and non-metallic materials for a wide range of industrial applications

OFFSHORE / SHIP-BUILDING

- Piping systems for use with machinery and topsides
- Fire extinguishing systems (sprinklers, low-fog, hi-fog)
- High-pressure systems
- Steam systems, auxiliary and supporting systems
- Turnkey modules for offshore applications
- Hose reels for the offshore industry
- Service and fitting for wind turbine systems

COATINGS

- Industrial coatings for steel and concrete

MINERAL OIL INDUSTRY

- Handling systems for mineral oils
- MFX_4 flow/loading computer
- COTAS tank farm management system

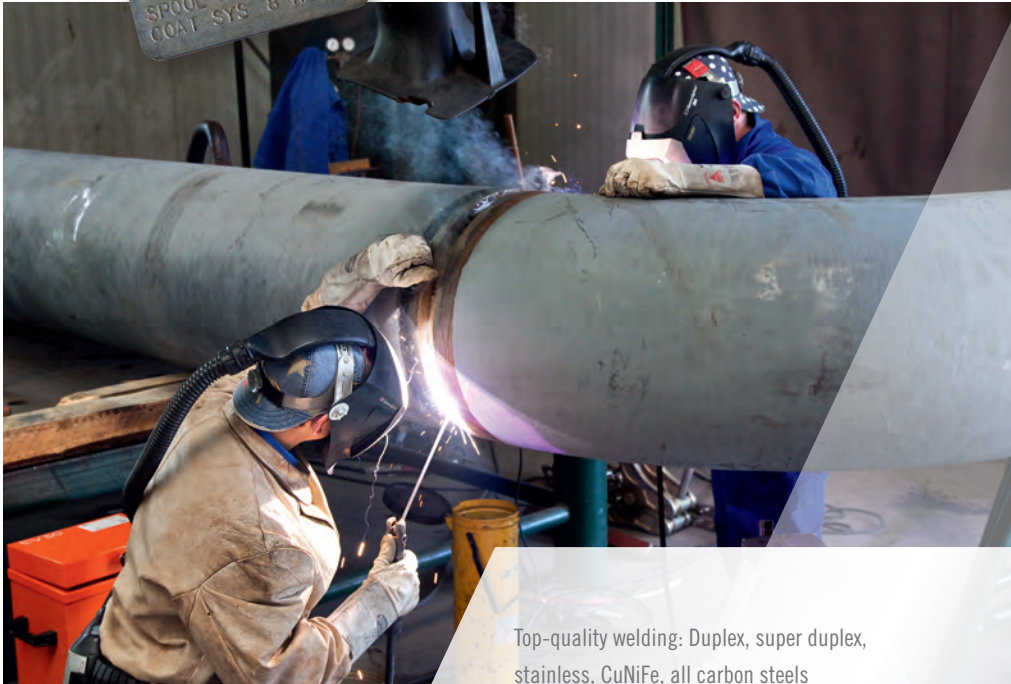
SERVICES

- Concrete repair
- Scaffolding
- Maintenance and servicing of industrial facilities
- Gas and respiratory protection training
- Life-saving equipment





Material management



Top-quality welding: Duplex, super duplex, stainless, CuNiFe, all carbon steels



Laser measurement



Pressure tests



Submerged-arc welding

G&K MONTAGENGESellschaft GMBH & CO. KG

G&K Montagengesellschaft GmbH & Co. KG manufactures and installs industrial pipelines that meet the highest quality standards such as those of the offshore, gas, oil and petrochemical industries.

Our pipeline construction centre is equipped with the latest processing and measurement technology for this purpose.

Database-driven material management and production process monitoring go hand in hand to ensure perfect project management, traceability and flawless documentation.

safety first

Our accident statistics for the past years reflect the critical importance of occupational safety at G&K. Our preventative approach to ruling out any risks to the health of our employees is our highest priority and an integral part of all our work processes.



Year	Hours of work	Reportable incidents G & K
2002	133,313	0
2003	127,022	0
2004	220,015	0
2005	196,864	0
2006	220,185	0
2007	259,124	0
2008	261,056	0
2009	234,818	0
2010	267,285	0
2011	200,306	0
2012	304,988	0
2013	530,904	0



System components including the full electrical system engineering spectrum for industry, ship-building and wind turbine technology



J.H.K. ANLAGENBAU UND SERVICE GMBH & CO. KG

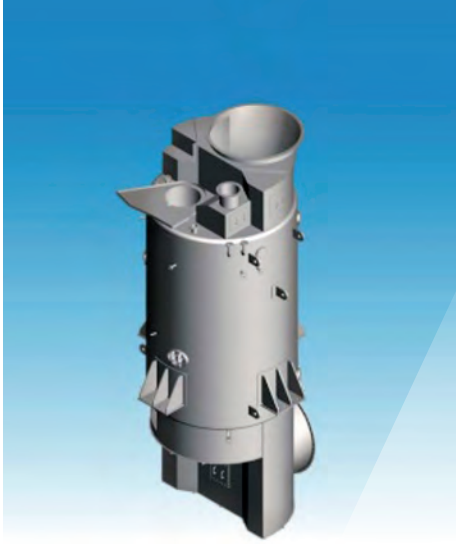
Consulting, planning, assembly, commissioning, maintenance and modernisation – J.H.K. Anlagenbau offers services that cover the entire lifecycle of a system. Our specialisation in the production of compact units for steel, container and pipeline building including measurement and control technologies provides our customers with major practical and financial benefits. Conservation and scaffolding services also perfectly complement turnkey solutions up to and including complete final assembly.

Our 40,500 m² premises, 9,500 m² production halls equipped with all the necessary machinery, and a berth whose water depth can accommodate sea-going vessels go hand in hand to allow us to manufacture large-scale components. Our transport capacities are capable of handling unit weights of up to 200 tons.

M+F TECHNOLOGIES GMBH

M+F Technologies is a competent partner who serves the world's mineral oil industry. Partial and complete modular solutions used to store and handle fuels can be put together to create innovative, individual systems. M+F systems are used for airport and power station fuel management as well as tanker truck and ship loading. Essential components such as the in-house-developed MFX_4 flow/loading computer and COTAS tank farm management system make M+F Technologies a global leader in this segment.





J.H.K. ENGINEERING GMBH & CO. KG

We excel when it comes to sophisticated, solution-based and innovative engineering. Engineering forms the basis for customised solutions such as the development and construction of dynamic components and systems subjected to heavy-duty use in onshore and offshore applications.



J.H.K. INDUSTRIEBESCHICHTUNG GMBH & CO. KG

Protect, secure and design technical systems, structures, industrial sites and pipelines: In addition to conventional corrosion protection work for all ferrous and non-ferrous metals, J.H.K. Industriebeschichtung offers a wide range of special coatings in accordance with TRBF (Technical Regulations for Combustible Fluids), WHG (German Water Resources Act), DVGW (German Technical and Scientific Association for Gas and Water) as well as concrete repairs and scaffolding services.



WITH OUR LONG-STANDING EXPERIENCE, CERTIFIED WORK METHODS, FLEXIBILITY AND INNOVATIVE IDEAS, WE CAN EFFICIENTLY AND RELIABLY MASTER ANY CHALLENGE YOU GIVE US.



INTERNATIONAL PROJECT HIGHLIGHTS

Neumayer III Antarctic Station

In cooperation with KAEFER, we realised the Neumayer III project for the Alfred Wegener Institute for Polar and Marine Research. The multi-purpose building containing research and operations facilities as well as living quarters on a platform raised above the surface of the snow was connected to a garage built in the snow. Transporting materials across a virtually endless expanse of shelf ice proved to be a great logistical achievement.

Protected usable area: 4,473 m² on 4 levels

Climate-controlled usable area: 1,850 m² on 3 levels

Station mass: ca. 2,300 tons

Façade: 6,000 m² consisting of 650 individual panels

Accommodation: 15 rooms, 40 beds

Lab and office: 12 rooms

Energy supply: 3 diesel generators (450 kW),

1 wind turbine (30 kW)

Special feature: Hoisting device with 16 hydraulic bipods, each comprising two hydraulic cylinders with biodegradable hydraulic oil for compensating the increasing snow and ice surface



Manufacture of topside modules

The J.H.K. Group was commissioned with manufacturing various modules for a production and storage vessel operating in the offshore oil industry. The services provided included the manufacture of the steel construction and pipework for the topside modules including coating and scaffolding, and the installation of pipes on the tanker. This large-scale project put our special fields of expertise to the test with complex, technically sophisticated systems.

Pressure boosting module

Height: 11,600 mm

Length: 20,343 mm

Width: 9,530 mm

Weight: 393 tons

Water injection module

Height: 8,530 mm

Length: 43,400 mm

Width: 9,530 mm

Weight: 1,188 tons

Degasser module

Height: 11,660 mm

Length: 6,300 mm

Width: 6,780 mm

Weight: 187 tons

Topside pipe system

Weight: 400 tons

Steel types: duplex, super duplex, Stainless, CuNiFe, carbon

Diameter: 1/2" – 30"



Hydrocracker

G & K Montagengesellschaft delivered pipelines of various different sizes and materials for a hydrocracker belonging to Oil Refineries Ltd. (ORL) in Haifa, Israel.

After being pre-fabricated in Germany, the pipelines were transported to Haifa where our experts assembled them on site.

Total pipeline weight: 1,200 tons

Diameter: 1/2" – 40"

Wall thicknesses: 2.77 mm – 48.84 mm

Max. operating pressure: 172 bar

Max. operating temperature: 498°C

Max. test pressure: 470 bar

Duration of the project: 18 months



CERTIFICATES

G & K MONTAGENGESellschaft GMBH & CO. KG

- SCC-P contractors /producing companies
- 97/23/EC Pressure Equipment Directive
- Manufacturing and welding company according to AD 2000 HP 0 and DIN EN ISO 3834-2
- DIN 18800-7 class E welding of steel structures
- ISO 9001:2008 quality management system
- Environmental management system according to DIN EN ISO 14001:2005
- Specialized company according to GW 301
- Monitoring contract in accordance with Wasserhaushaltsgesetz (German Water Resources Act)

J.H.K. ANLAGENBAU UND SERVICE GMBH & CO. KG

- Manufacturing and welding company according to AD2000 HP 0 and DIN EN ISO 3834-2
- Manufacturer qualification according to DIN 2303
- Specialised company for fuel oil consumer systems
- ISO 9001:2008 quality management system
- SCC contractors/producing companies
- GL welding certificate for steam boilers / pipelines
- DIN EN 1090 welding certificate
- System for the transfer of identification markings of work materials (DIN EN 10204)
- Environmental management system according to DIN EN ISO 14001:2009
- Factory production control (EN 1090-1:2009+A1:20011)
- Monitoring contract Wasserhaushaltsgesetz (German Water Resources Act)

J.H.K. INDUSTRIEBESCHICHTUNG GMBH & CO. KG

- Member of the Bundesverband-Gerüstbau (German Federal Association of Scaffolding Contractors)
- ISO 9001:2008 quality management system
- Member of the Landesgütegemeinschaft Instandsetzung von Betonbauwerken (State Quality Association for the Repair of Concrete Structures)
- SCC-P contractors/producing companies
- Tank protection seal of quality: coating of retention areas
- Tank protection seal of quality: coating of tank interiors
- Tank protection seal of quality: Tank revision flammable fluids (all tank constructions)
- Environmental management system in accordance with DIN EN ISO 14001:2005

M+F TECHNOLOGIES GMBH

- ISO 9001:2008 quality management system
- SCC contractors/producing companies
- ISO 14001 environmental management system
- Specialised company according to Wasserhaushaltsgesetz (German Water Resources Act)
- ATEX explosion protection 94/9/EC quality assurance system
- 2004/22/EC Measurement Instruments Directive
- 97/23/EC Pressure Equipment Directive
- IECEx quality assessment report (QAR)

J. HEINR. KRAMER HOLDING GMBH

LABRADORSTRASSE 5
27572 BREMERHAVEN
GERMANY

PHONE +49 471 9721-0
FAX +49 471 9721-300
E-MAIL kramer-gmbh@jhk.de

web www.jhk.de