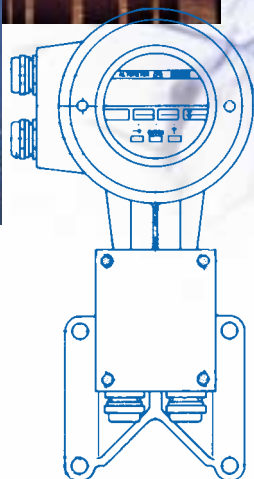
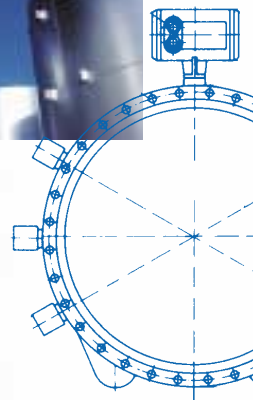


Oil and gas in good hands

- Custody transfer**
- Loading/offloading**
- Leakage detection**
- Tankfarm management**



Overview

Everything under control

Day for day vast quantities of oil and gas are transported across the globe, refined and transported further. Mature and foolproof technology is essential. But it is the control through instrumentation and visualisation that help make all these processes safe and reliable.

KROHNE is omnipresent

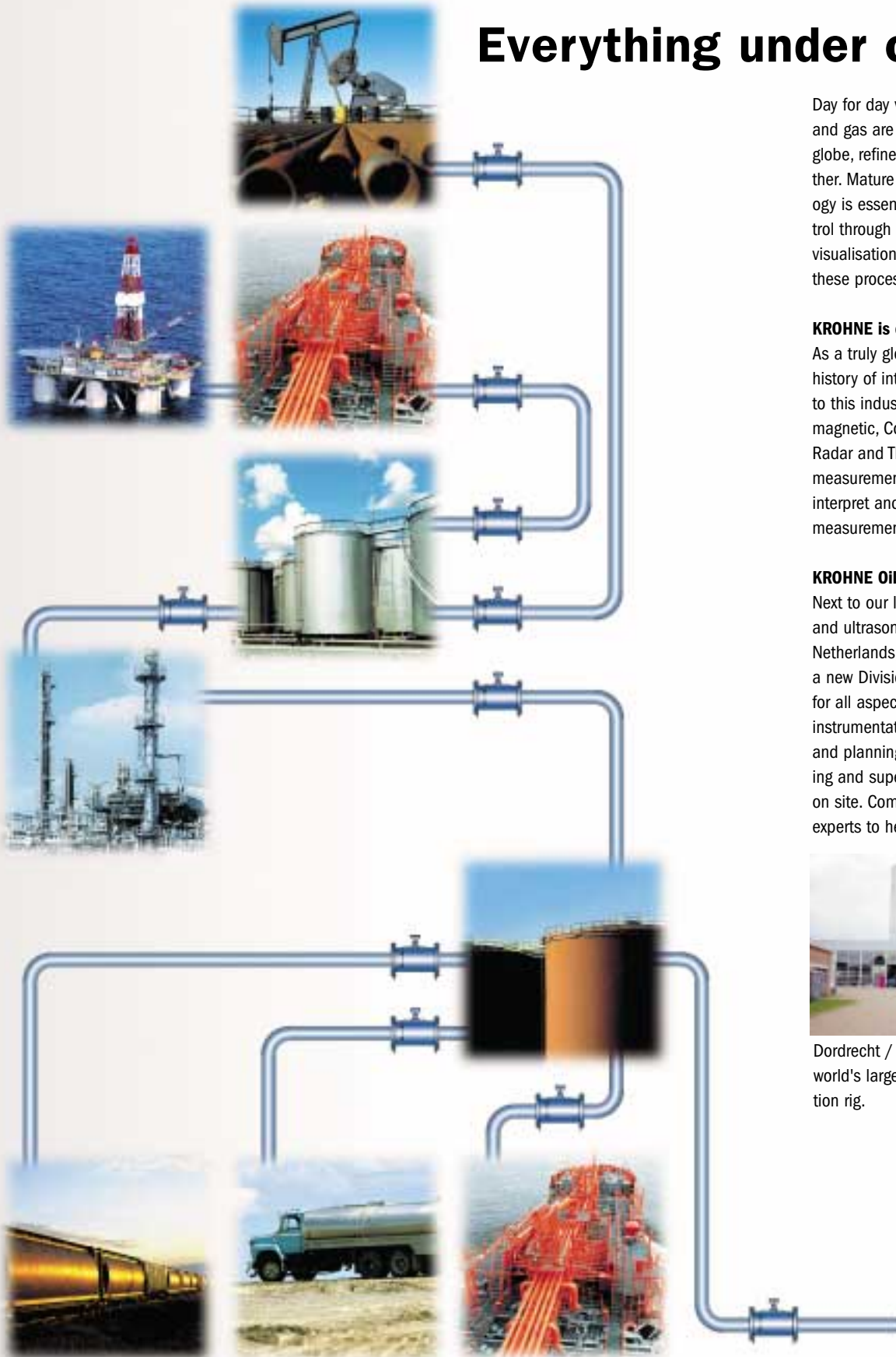
As a truly global player, we have a history of introducing innovations to this industry. Ultrasonic, electromagnetic, Coriolis flowmetering. Radar and TDR level interface and measurement and systems to interpret and communicate the measurements.

KROHNE Oil and Gas is here

Next to our large-scale magmeter and ultrasonics plant in Dordrecht Netherlands, we have established a new Division. It's a single contact for all aspects of control and instrumentation, from consultation and planning to construction, testing and supervision of installation on site. Competent industry experts to help you.



Dordrecht / NL - Home of the world's largest flowmeter calibration rig.



Custody Transfer

Assurance for both parties

Knowing is better than believing. Custody Transfer translates to hard cash. KROHNE offers **Turn-key metering stations** and systems with all components including flowmeters, pipework, valves, displays, integrated testing and calibrating units, DCS and other control systems.

From consultation through engineering to the final skid. For crude to refined products, LPG, LNG, CNG and all other liquid products in the oil and gas industry.



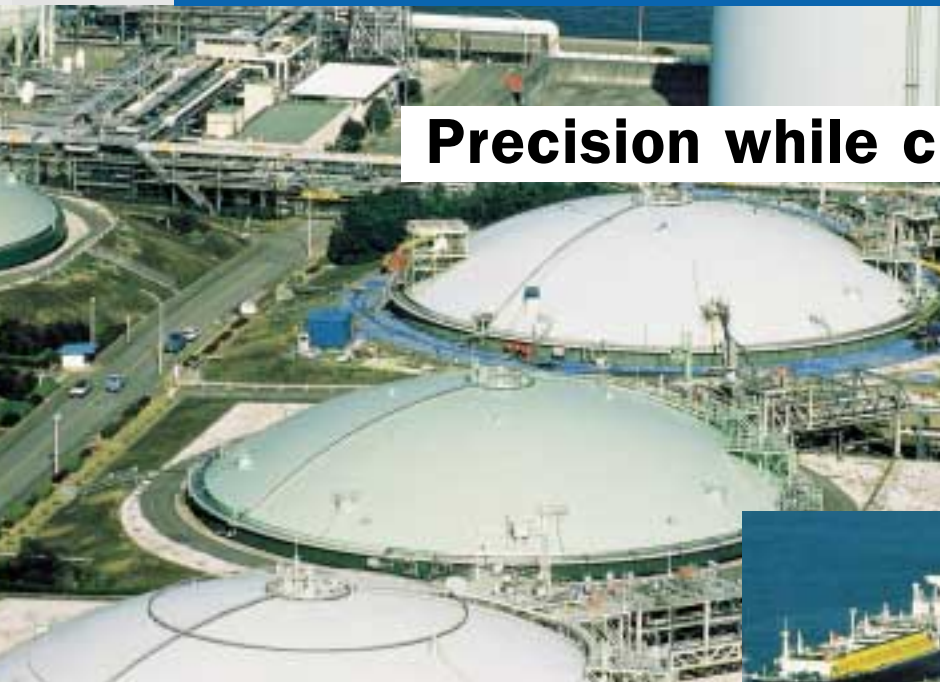
Loading and unloading

Precision while changing carrier

Rolling stock, ships or Trucks - KROHNE has the perfect loading and offloading solution for all modes of transportation.

Custody Transfer approved and factory calibrated consisting of rugged measuring instruments, loading arms, safety and security features and an optional interface to existing systems.

For refined products, gases and chemical raw materials. Ideal for goods subject to customs and excise.



Leak detection systems

When every second counts

In no time at all a leak can result in enormous costs - for losses and particularly clean-up. The answer is early warning with KROHNE's LDS (Leak Detection System) for all liquid and gas pipelines.

Time-tried ultrasonic flowmeters at measuring stations along the line are linked by dedicated, sophisticated software to our Leak Detection System and to the main DCS system.

In seconds you get a warning and localisation to within 1%.
And we measure in buckets, not barrels.



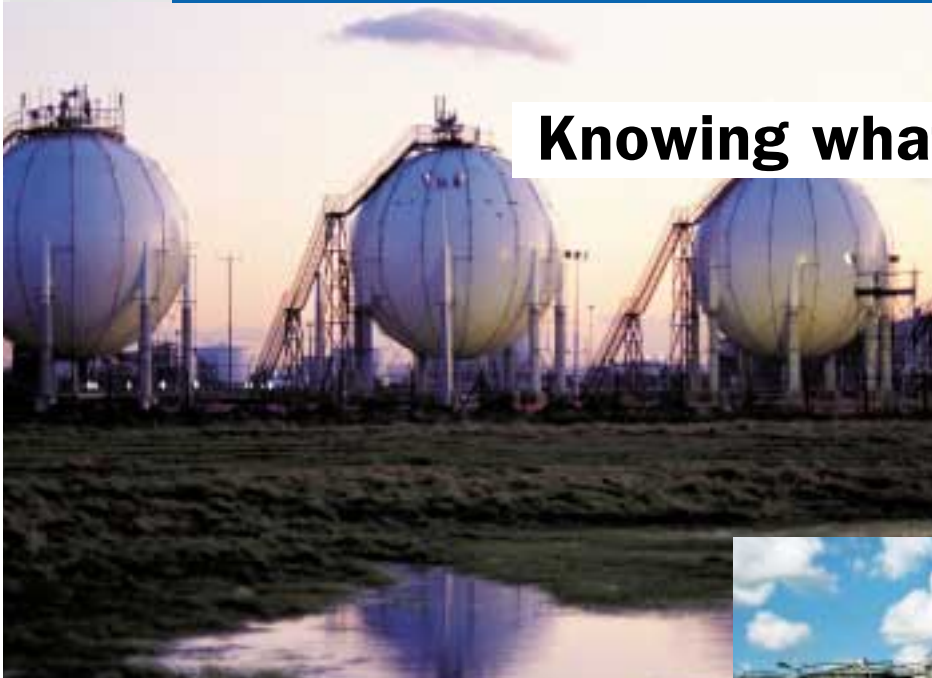
Tank farm management

Knowing what's in there

One tank is easy to monitor. Tank farms are a different matter. With KROHNE's complete system, you have everything under control. Measure fill height to better than legally specified accuracy. Detect water levels through interface and compensate for pressure and temperature. Choose any combination of full monitoring with history, inventory control and data logging.

We're compatible with existing systems and ideal for extending or retrofitting to small to highly complex tank farms.

Computer interfaces, and wide monitoring options complete the picture. And being a flow provider, we can offer custody monitoring, too.



The address for all your needs

We're only as good as our next order. That's why we work hard to satisfy your needs for complete products, state-of-the-art technology and to provide expert knowledge of metering in the oil and gas industry:

This is an extract of what we can do for you today:

- Consultation
- Planning
- Basic and detailed engineering
- Project management
- Construction of metering skids
- Certification
- Supply of KROHNE products
- Supply of 3rd party products
- Comprehensive factory tests
- Commissioning
- On-site tests
- After-sales service and training

Krohne Oil & Gas
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NL-3313 LC Dordrecht

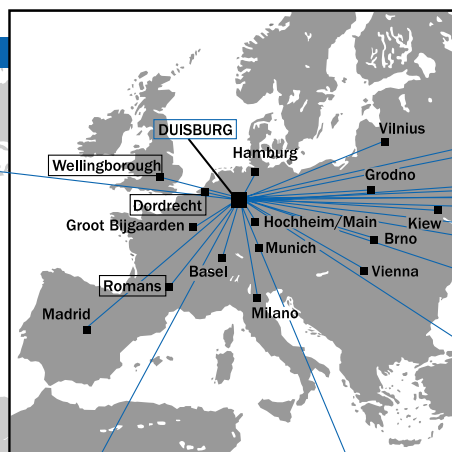
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