

ELAFLEX Group will be exhibiting again at HTWE, the leading hydrogen trade fair

Hamburg, September 2026 – From 20 to 22 October 2026, the annual ‘Hydrogen Technology World Expo’ trade fair will once again draw the attention of an international audience of industry professionals to advanced hydrogen solutions. ELA FLEX Group welcomes visitors to Stand 6M10 in Hall B6 at Messe Hamburg. The focus of the fair presentation will be on safe solutions for the handling of compressed hydrogen (CH₂), liquid hydrogen (LH₂), liquefied CO₂ for use in CCS and CCUS processes, and ammonia.

Hydrogen already plays a central role in decarbonisation and is becoming increasingly important in view of the objectives set. At the same time, CH₂, LH₂ and CO₂ place high demands on storage and transfer. As a leading international specialist in refuelling technology, ELAFLEX Group has been developing and supplying reliable system solutions for handling alternative energy sources such as LPG, ammonia, hydrogen, LNG, CNG and liquefied CO₂ for many years. ELAFLEX Group’s extensive experience and seamlessly integrated expertise ensure the highest levels of operator safety, ergonomic handling, consistent environmental protection and above-average flow rates throughout the entire transfer chain.

At stand 6M10 in Hall B6, the international trade audience can expect to see the following products and solutions, amongst others:

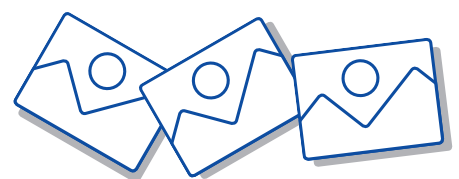
- TPED trailer valves and manifolds, as well as quick-connect couplings from Oasis. These enable a significant increase in flow rate whilst ensuring the safe loading and unloading of compressed hydrogen at pressures of up to 520 bar.
- Dry couplings and hose assemblies for the safe handling of ammonia and the demanding handling of liquefied CO₂ as part of CCS and CCUS processes.
- LH₂/sLH₂ couplings, including matching hose assemblies and optional breakaway couplings from MannTek, for refuelling vehicles and ships with cryogenic hydrogen (LH₂ and sLH₂). In contrast to the previous use of open, bolted connections without shut-off valves, MannTek’s implementation of the quick-connect principle—including valve assemblies—significantly reduces the need for ‘purging’ and cooling down the lines. This delivers a significant efficiency gain for LH₂ transfers and, for the first time, enables refuelling operations on a production scale.
- Newly developed hydrogen refuelling kits for vehicles operating at 700 bar (ELAFLEX N-H70 HD) or 350 bar (ELAFLEX N-H2-H35), optionally fitted with an infrared data interface.
- H₂ hose assemblies, rubber expansion joints and fittings from ELAFLEX with exceptionally low permeation rates. The components in this portfolio are suitable for the safe transfer of hydrogen. For applications involving high-purity media, such as in electrolyzers, the ERV-H2+ rubber expansion joints are also available with a PTFE liner.
- Special expansion joints from ditec for use in electrolyzers.

To ensure reliable monitoring of the various applications, the ELAFLEX Group also offers electronic leak detection systems from SGB. These are specifically designed for demanding applications in potentially explosive atmospheres (Ex/Atex).

About ELAFLEX Group

The ELAFLEX Group is a globally leading specialist for the transfer of liquids and gases, developing and distributing solutions for handling of conventional and alternative fuels as well as chemicals. Today, ELAFLEX stands for cross-industry standards regarding safety and quality for already more than 100 years. The unmatched quality of the user-friendly products is based on durability, sustainability, reliability, and results in a low Total Cost of Ownership (TCO). As a global system provider, the ELAFLEX Group combines decades of expertise and innovative strength along the entire transport chain. Aljac, Dantec, ditec, ELAFLEX, MannTek, Oasis and SGB always consider the path of sensitive media from production or extraction to the end user as a whole and optimally harmonise all components involved.

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*The following images can be requested in printable or online resolution by sending a short e-mail to **presse@elaflex.de**:*



New TPED equipment from Oasis to significantly increase the flow rate when refuelling with compressed hydrogen.



ERV-H2+ rubber expansion joints from ELAFLEX with an ultra low permeation rate for the safe transfer of hydrogen, methane or 'hythane', also available with PTFE liner on request.



N-LH2-P – semi-automatic, pneumatic nozzle from MannTek for refuelling trucks with cryogenic hydrogen (LH2).



N-H2-H35 – nozzle for refuelling vehicles with 350 bar hydrogen from ELAFLEX, optionally available with IR data interface.



N-H2-H70UHF – nozzle for refuelling vehicles with 700 bar hydrogen from ELAFLEX.



MannTek dry and emergency disconnect couplings, used in conjunction with Dantec hose assemblies for the safe handling of ammonia and liquefied CO₂.