

Delicate tasks should be entrusted to safe hands: Medical gases from Messer.



Everything at hand:
Messer as a medical
partner.



Stefan Messer

Chief Executive Officer and owner
of Messer Group

When medical gases are of vital importance for medical facilities and their work, then their manufacture is a major responsibility. Messer is more than aware of

this responsibility – every day, in every department and at every stage of manufacture. Through its competence and experience in medical gases, Messer is able to handle and accept this responsibility. We can thus offer you exactly what you need: gases as medicinal products or medical devices together with a full range of accessories, with highest possible product quality and comprehensive service all from a single source – including complete control throughout the value chain and extremely high supply reliability – for all medical specialities where medical gases are used.

To enable you to immediately start working optimally Messer also offers you the necessary medical accessories – from consumables such as humidifiers, nasal cannulas and oxygen masks, to extension hoses and the right connectors and adapters. This allows you to focus all your attention on your work, which is good for a highly sensitive product, and good for you – because it provides you with the security you need and gives you a genuine feeling of being in safe hands.

The right helping hand is required in many areas:

- Anaesthesia
- Biobanks/cryobanks and research institutes
- Cardiology
- Diabetology
- Dentistry
- Dermatology
- Gynaecology
- Haematology
- Intensive care/ emergency medicine
- Neonatology
- Occupational medicine
- Ophthalmology
- Otorhinolaryngology
- Pulmonology
- Rheumatology
- Sports medicine
- Surgery
- Toxicology
- Veterinary medicine

Not leaving the
right feeling to
chance.

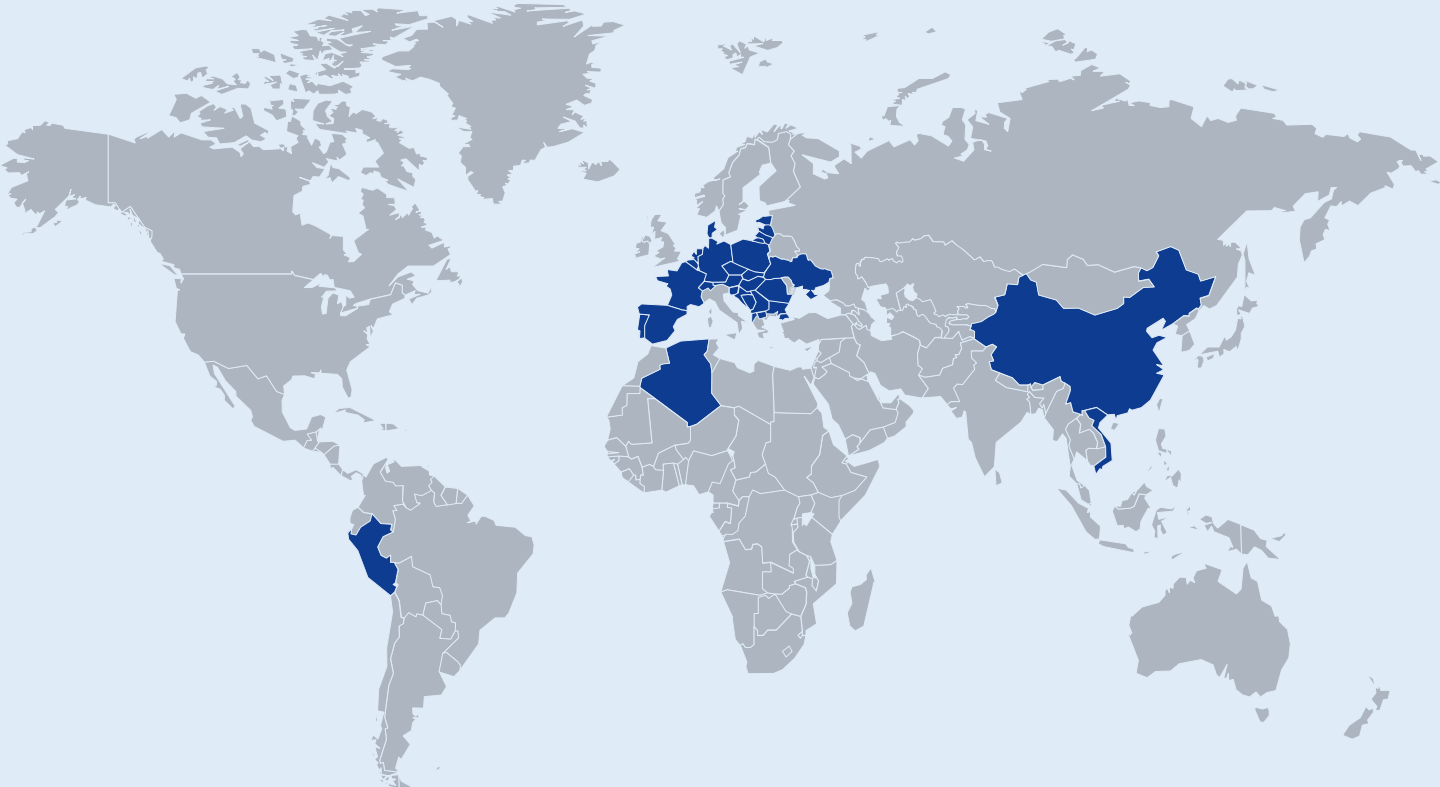



Messer is an internationally operating, independent company that has dedicated itself to the world of gases with passion, respect and curiosity for over 110 years now. The company's headquarters are in Bad Soden, near Frankfurt, Germany, and it is represented in 29 countries in Europe and Asia as well as Peru and Algeria – with more than 60 operating companies. This makes Messer the world's largest privately managed gases specialist.

More than 110 years of Messer experience with gases.

Here Messer can rely on over 5,400 employees who, with considerable dedication, passion and conscientiousness, pull out all the stops while working on new, Messer-quality solutions involving every aspect of gas for an extremely wide range of applications and requirements in diverse industries.

Helping hands are there where they're needed:



A close-up photograph of two surgeons in a sterile operating room. They are wearing blue surgical scrubs, white face masks, and blue bouffant caps. The surgeon on the right is also wearing white latex gloves. They are shaking hands, with the gloved hand of the surgeon on the right resting on the hand of the surgeon on the left. The background is a soft, out-of-focus blue, suggesting a clean clinical environment.

Top quality and the
highest level of safety
hand in hand.

Messer is not only active as an industrial gases specialist, but also as a pharmaceutical company with a differentiated range of gases specifically intended for the medical segment. With all of the high standards, special demands and regulatory requirements associated with this – from certified product quality and comprehensive service to the long-term safety of our medicinal products and medical devices, which has to be guaranteed in every respect. Messer ensures that its own high standards are met through regular internal audits, a standardised pharmacovigilance system and with validated procedures and validated computerised systems.

Messer as a pharmaceutical company.

Good work has its own personal signature: The benefits of medical gases from Messer at a glance.

- Many years of gas expertise
- A comprehensive product portfolio
- Certified product quality
- Reliable supply capacities and delivery
- Technical service and maintenance
- One contact for all questions
- Service with the highest level of expertise

Competence and expertise are in demand the world over:

In the Americas:

Peru

In Europe:

Albania

Austria

Belgium

Bosnia-Herzegovina

Bulgaria

Croatia

Czech Republic

Denmark

Estonia

France

Germany

Hungary

Latvia

Lithuania

Macedonia

Montenegro

Netherlands

Poland

Portugal

Romania

Russia (Kaliningrad)

Switzerland

Serbia

Slovenia

Slovakia

Spain

Ukraine

In Africa:

Algeria

In Asia:

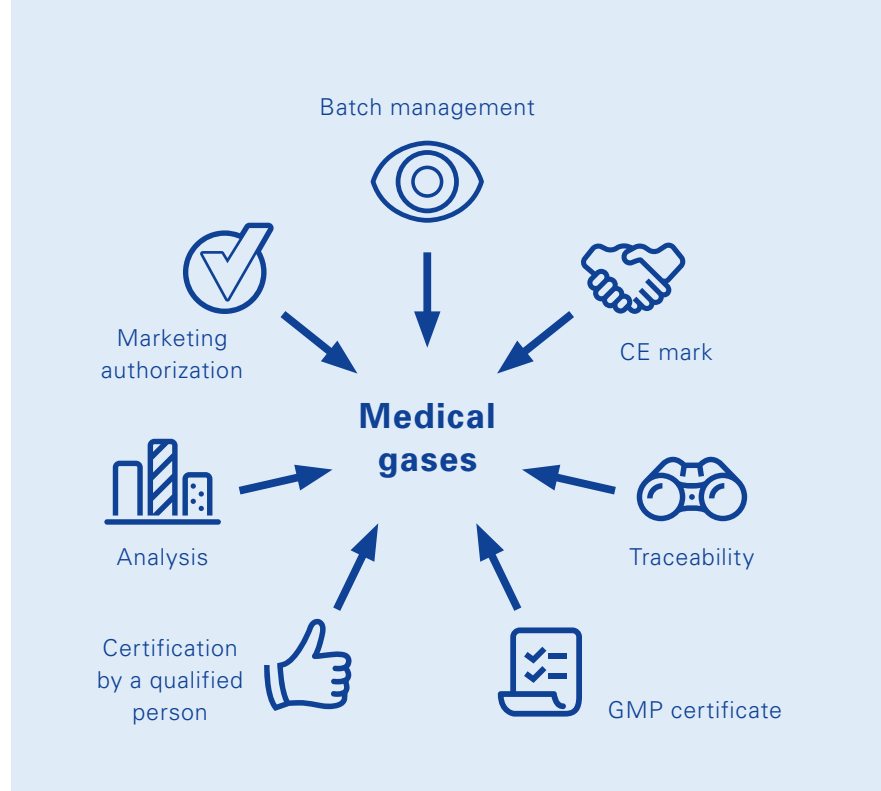
China

Vietnam

In the best
hands, when it
matters most.



In medicine in particular, gases play an especially important role. They are used – and are indispensable – in emergency situations, as a constituent of therapies, or for diagnostic purposes. A basic principle applies here: the application



areas are as diverse and complex as the composition of the medical gases themselves. In this context, medical gases are always classified either as a medicinal product or as a medical device, depending on their application area and their effect. Consequently, they are – from production right through to delivery – always subject to the strictest regulatory requirements, which Messer as a pharmaceutical company must effectively and reliably fulfil.

Medical gases and Messer.

To make your decision the right one: Messer standards for medical gases.

In the medical gases segment, Messer offers you a complete service package – from planning and installation to consultation and gas supply. Here you can rest assured that all national, European and international requirements are met, not only in production but also in sales – whether for gases as medicinal products where the requirements of Good Manufacturing Practice (GMP) and the specifications of the European Pharmacopoeia apply; or for gases as medical devices where the relevant Medical Device Directives (MEDDEV) are followed. This also means that all products, medicinal products and medical devices at Messer are batch managed, analysed, and can be traced completely.

Examples of applications and treatments in which medical gases from Messer can help today:

- Respiratory therapy
- Diagnostics
- Cryotherapy
- Combined anaesthesia, anaesthetic induction, sedation
- Cooling of magnets in magnetic resonance imaging
- Storage of biological materials
- Laser applications
- Medicinal baths
- Surgical interventions, including minimally invasive surgery
- Operation of medical devices
- Pain treatment

Helping hands are
always there for you.

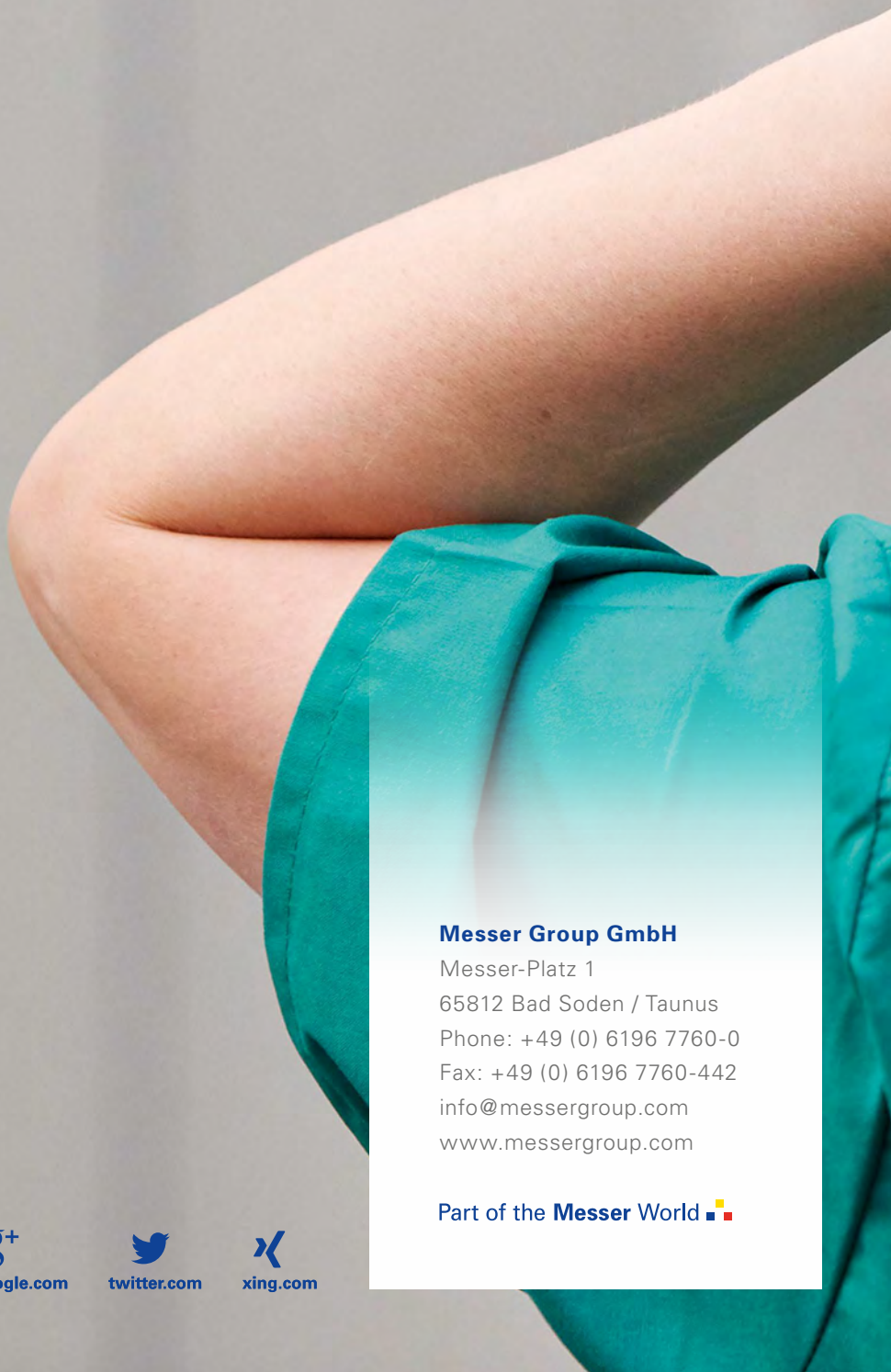


A good offer, promoting trust and giving you the necessary security, is of course incomplete without quality consultation. Messer will provide you not only with what you need for your everyday medical work, but also more:



an individual contact person for all of your questions and concerns.

The Messer
consulting service.



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