



AT A GLANCE



9.4% of annual turnover
is invested in R&D



25% technical staff



> 60 clinical studies with
Hänsler Medical products



> 25 distribution partners worldwide



> 10,000 customers
in more than 50 countries



HÄNSLER MEDICAL ONLY TRUST THE ORIGINAL

It was towards the end of the 1950s, when Dr. Joachim Hänsler developed the world's first medical ozone generator and thereby laid the foundations for modern ozone therapy. Ever since, Hänsler Medical has adopted the role of a pioneer in the industry, consequently focusing on scientific research and quality, developing pioneering standards and leaving its mark in the ozone therapy.

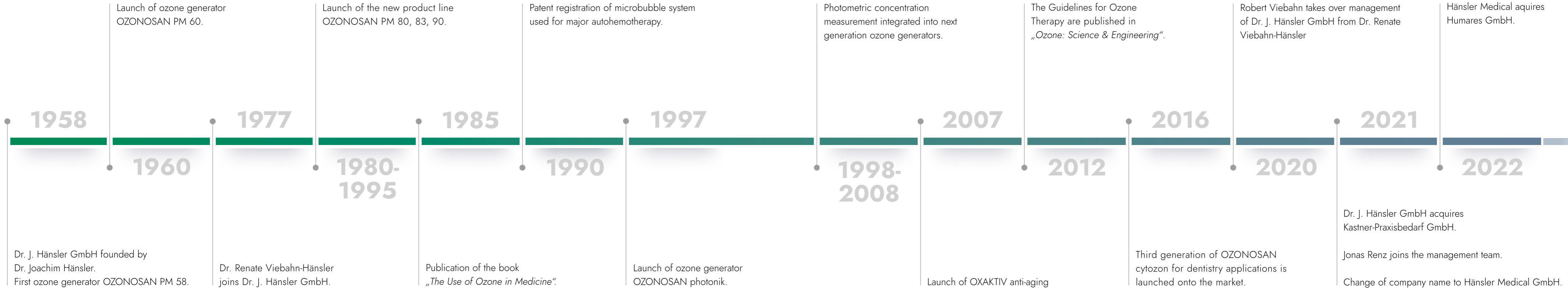
Today, Hänsler Medical thrives as a family-owned business and is led by the third generation. We are proud to take the lead in the industry and remain committed to further intensify our research and development efforts and to manufacturing excellence 'made in Germany.'

This allows us to satisfy the highest standards regarding safety, efficacy, quality, and to deliver on our service promise to our customers.

All our efforts are focussed on the patients' well-being – for over 60 years.

Please allow us to introduce you to Hänsler Medical in this company overview – only trust the original.

HISTORY



MILESTONES OF OZONE



01 CHRISTIAN FRIEDRICH SCHÖNBEIN

1799-1868
1840 marks the year of the ozone discovery by Schönbein.

02 WERNER VON SIEMENS

1816-1892
In 1857 the first ozone tube was developed enabling improved drinking water quality.

03 NIKOLA TESLA

1856-1943
In 1896, Nikola Tesla filed a patent for the first ozone generator.

04 ERWIN PAYR

1871-1946
In 1935, Payr published his comprehensive monograph „Ozone Therapy in Surgery“ marking the beginning of widespread medical ozone treatments in Germany.

05 JOACHIM HÄNSLER

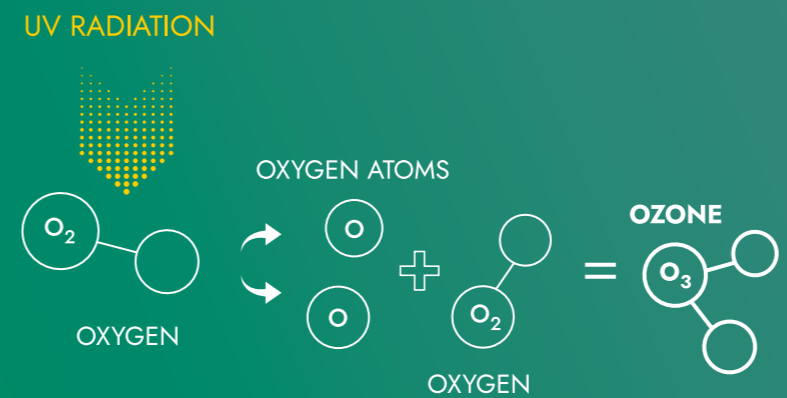
1908-1981
Our founder developed the first medical ozone generator enabling precise metering of the ozone/oxygen concentration. OZONOSAN laid the foundation for modern ozone therapy. In 1972, he founded the „Medical Association for Ozone Therapy“ in cooperation with Hans Wolff.

MEDICAL OZONE

Ozone represents a triatomic modification of molecular oxygen and is a colourless gas at ambient temperature with a characteristic smell.

Today, ozone is used to purify drinking water and in a special medical ozone/oxygen mixture for medical purposes.

When applied as bioregulator or analgetically, medical ozone represents a validated treatment option in complementary medicine.



DIRECT EFFECTS OF TOPICAL OZONE TREATMENT

Ozone has a bactericidal, fungicidal and virus inactivating effect which were first medically used in World War I in wound care.

Among the most predominant effects are:

- > wound cleaning
- > activation of cell metabolism
- > improved oxygen uptake

INDIRECT EFFECTS OF SYSTEMIC OZONE TREATMENT

Within the low concentration range (up to a maximum of 40 µg/ml), ozone is applied for major autohemotherapy and rectal insufflation. For these purposes, it acts as bioregulator and has a cell metabolism activating effect.

Among the most predominant effects are:

- > activation of immunocompetent cells
- > cytokine regulation
- > oxidative stress regulation
- > anti-inflammatory effect



INNOVATION

Our research and development efforts allow us to continuously improve our therapy systems. Over 10,000 devices and over 10 million consumable sets supplied worldwide to date attest to our strengths.

Together with our unparalleled medical training we offer optimum systems ready for medical and hygiene ozone applications in medical practices and clinics as well as for research and practical therapy.

OZONE THERAPY

INDICATIONS

- chronic inflammatory diseases
- prevention
- complementary oncology
- infections & virus-induced diseases
- poorly healing wounds
- pain therapy
- dentistry
- liver diseases
- vascular diseases
- immune modulation / allergies

THERAPY METHODS

- major autohemotherapy
- minor autohemotherapy
- rectal insufflation
- bag gassing
- low-pressure gas application with suction cup
- ozonized water
- intraarticular injection
- subcutaneous and intracutaneous injection
- intradiscal injection



GENERATORS FOR OZONE THERAPY



Major autohemotherapy with OZONOSAN alphaplus



OZONOSAN *alphaplus*

With its integrated water ozonization unit, the OZONOSAN alphaplus is perfectly designed for the entire range of ozone therapy of clinics and practices. Thanks to its ability to photometrically measure ozone concentrations between 3 and ≤ 100 $\mu\text{g/ml}$, all common treatments such as local ozone/oxygen injections, ozonized water, minor and major autohemotherapy, rectal insufflation, bag gassing etc. can be conducted.

PHOTOMETRIC OZONE CONCENTRATION MEASUREMENT

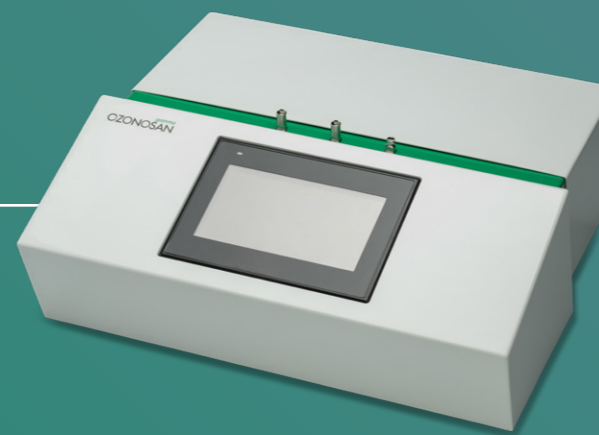
For our OZONOSAN alphaplus and boardcase generators, Hänsler Medical relies on the photometric measurement, enabling continuous monitoring and adjustment of ozone concentrations if need be. Ozone concentration and decay largely

depend on external parameters such as air pressure, temperature, or air humidity. Due to the natural variations of these variables, continuous measurement of the ozone/oxygen mixture results imperative for successful and safe treatment.



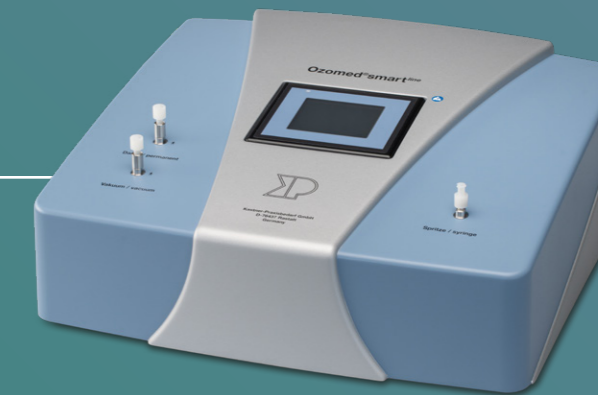
OZONOSAN *boardcase*

Highly mobile unit, especially suitable for home visits, pain relief therapy (also in the sports sector), or as a second device. Thanks to its photometrically monitored ozone concentrations, ranging from 1 up to ≤ 50 $\mu\text{g/ml}$, the system is ideal for all systemic applications and topical injection techniques. Due to its great flexibility, the model is also very popular among veterinarians.



OZONOSAN *gamma*

With the OZONOSAN gamma, the large touchscreen and semi-automated software programs significantly enhance the operating comfort of the device. The system allows for steplessly adjustable ozone concentrations between 1 and ≤ 80 $\mu\text{g/ml}$ and is thus suitable for all common topic and systemic treatment forms.



OZOMED *smartline*

For numerous years, many physicians have relied on the OZOMED smartline as a proven partner for ozone therapy. The ozone concentrations are ranging between 1 und ≤ 80 $\mu\text{g/ml}$, hence allowing for all common therapy forms. OZOMED smartline is only available in selected countries.

TO US, THE SAFETY OF PATIENTS AND USERS HAS ALWAYS BEEN OF UTMOST IMPORTANCE. EVERY PRODUCT BENEFITS FROM OUR LONG-STANDING EXPERIENCE AND OUR CONTINUOUS R&D EFFORTS. ALL OF OUR OZONE GENERATORS CAN BE OPERATED INDEPENDENTLY FROM THE PATIENT AND ARE APPROVED MEDICAL DEVICES.



ADDITIONAL PRODUCTS FROM HÄNSLER MEDICAL



OZONOSAN *cytozon*

Being a compact table device, OZONOSAN cytozon is especially suitable for dentistry applications, producing ozonized water for disinfection and wound healing for implantology, periodontal and root canal treatments and professional teeth cleaning. It comes equipped with a handpiece that allows for the release of pure ozonized water, pure oxygen or ozonized water/oxygen spray. The additional bayonet fitting allows to withdraw ozonized water also by using ultrasonic and piezosurgery.



OZONOSAN *water ozonization unit*

Our accessory for water processing using ozone — compatible with all ozone generators. Our OZONOSAN water ozonization unit is available as accessory for our ozone generators and allows for simple and safe ozone water generation when connected to the take-off-nozzle. For this purpose, one liter of double distilled water is bubbled through with the ozone/oxygen mixture. Being equipped with its own catalyst system, excessive ozone quantities are oxidised safely.

PRODUCTION

Expansion of our production to a second site located in Southern Germany in 2022.

For optimum implementation, our research developments are aimed at safe and efficient products.





OZONOSAN VACUUM BOTTLES

WITH PATENTED MICROBUBBLE SYSTEM AND LATEX-FREE PLUG

The vacuum bottle is key in order to perform major auto-hemotherapy. It is a sterile medical disposable containing around 800 mbar of vacuum and is pre-filled with sodium citrate as anticoagulant. Moreover, it employs a latex-free plug, thereby avoiding latex-related allergic reactions. For an easy handling the plug carries clear markings.

The system is certified as a medical device class IIb / IIa.

The patented microbubble system enables improved uptake and evenly distributes the ozone over the entire blood content.

Instead of large, uncontrolled gas bubbles, a large number of small gas bubbles is generated and evenly distributed across the blood volume.

This spares sensitive leucocytes and stimulates them to produce and release interleukins. Also, the efficiency of the ozone/oxygen therapy is increased.



Animation of our
OZONOSAN vacuum bottle

CONSUMABLES FOR OZONE THERAPY

In addition to ozone generators, consumables are decisive for the success of ozone/oxygen treatments. All consumables by Hänsler Medical comply with relevant regulations and are exclusively manufactured from ozone-resistant materials, free from any allergic substances.

For enhanced application comfort, our therapy sets are pre-compiled prior to utilisation. The user thus receives a complete unit for every treatment which ensures safety and user-friendliness of the application.



OZOMED OTS

A pre-packaged set designed for major auto-hemotherapy in closed systems. Bacterial filters and connections are already included and thus ensure easy handling. The robust set consists of special biocompatible medical polymers.





QUALITY

In everything we do, our uncompromising focus on quality has always been our main priority.

Reliability, excellent workmanship and unparalleled service and customer education differentiate Hänsler Medical.

CARE PRODUCTS CONTAINING OZONE FOR BIO-REVITALIZATION



HÄNSLER MEDICAL PRO-ACTIVELY USES ITS EXPERIENCE GAINED IN THE FIELD OF OZONE/OXYGEN THERAPY FOR SKIN CARE.

SUITABLE EITHER AS DAILY CARE OR TO SUPPORT WOUND HEALING PROCESSES.

OXAKTIV *care*

The ideal complement for your ozone/oxygen therapy.

- > active oxygen supports tissue regeneration
- > stimulates wound healing
- > disinfecting effect

OXAKTIV *anti-aging*

Ideal as daily intensive care or to complement other cosmetic products. Suitable for sensitive or problematic skin. The gel is waterproof and prevents the skin against dehydration.

- > its active oxygen complex stimulates cell metabolism
- > regenerates tissue
- > revitalizes skin
- > traps free radicals, eliminates stress factors, protects skin from aging processes

Hänsler Medical also offers customized manufacturing of ozonized oils - please contact us.

- > Due to the bactericidal and fungicidal effects of ozone, no preservatives are required
- > Dermatologically tested for skin tolerance
- > Suitable for sensitive skin



SERVICE

Hänsler Medical has the largest sales and service network in the industry. Our 25 global sales partners do not only benefit from our international field service, but also from the regular intensive training courses held in terms of sales and service as well as from invitations to initiation and continuing training events, both in Germany and abroad.

Within the D-A-CH (Germany (D), Austria (A), Switzerland (CH)) region, Hänsler Medical is the only manufacturer with specially trained medical product advisors for its field service, ready to assist our clients in the long-term in case of difficult concerns.



WORKSHOPS | SEMINARS | CONGRESSES

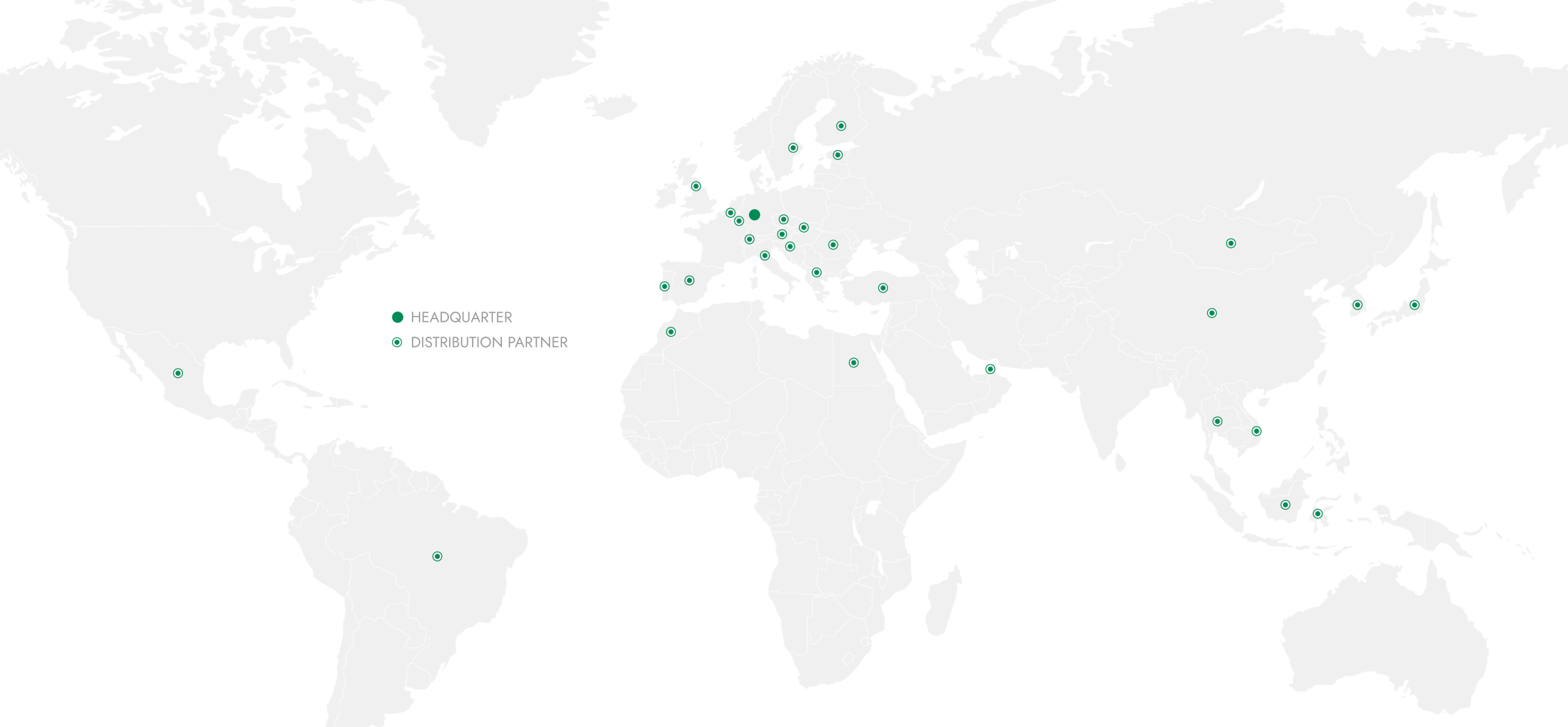


HÄNSLER MEDICAL ACADEMY

The scientific competence of Hänsler Medical has been recognized for decades. The publications of our collaborators have become reference works for users and researchers active in the field of ozone therapy. With more than 60 clinical studies conducted with products by Hänsler Medical, we are recognized as leader within the industry's scientific excellence, and have become the preferred partner of numerous renowned clinics and practices.

Hänsler Medical Academy makes our knowledge accessible to a broad circle of customers and other interested parties and moreover provides the opportunity for comprehensive education and training by means of workshops, seminars and conferences, held both in Germany and abroad.

For the organisation of these events we closely collaborate with ozone expert associations, aiming at a sustained exchange of experiences between application and science.



- HEADQUARTER
- DISTRIBUTION PARTNER

