

**GROUP**





Kiln Technology



Refractory Technology

Four unique  
business fields with  
a single objective:

M-Group. Our special strength is the know-how of our specialists. Based on decades of experience, we are able to offer you unique solutions using our efficient synergies. The processes are centralized to keep a lean structure.

best possible service  
for your kiln.

Such a complex and interactive service portfolio can only be found with the M-Group. Whether you are deciding for specialized services or turn-key packages - one thing is sure to be said: we will excite you with our performance and adherence to delivery time.



Safety Technology



Future Technology



## Refractory Installation

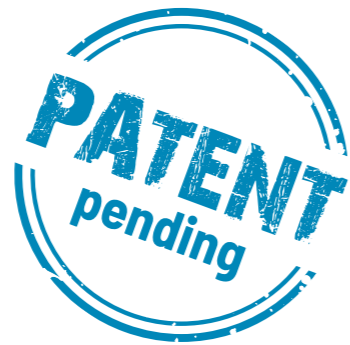
Only with the special knowledge of trained refractory bricklayers, can modern and high quality refractory products reach their full performance and maximum life cycle. A wise investment, which always pays off.

**We cover the following areas:**

- Craftmanship & Equipment
- Machine Technology & Automation
- Transport & Logistics
- Health & Safety
- Law & Order
- Project & Management

We keep your  
kiln running.

# The new dimension of refractory work.



## Quadriga – The digital revolution

Safety at work, workload reduction, economy of time, set-up and personnel – the wish list for optimizing refractory installation has been very long up to now. Especially with requirements being completely diametrical to one another. But thanks to our innovative QuadrigaSystem, all your opposing goals can be reached simultaneously.

### Your four factors for success:

- Maximum safety – no personnel in risk area
- Efficient processes – from fire-off to fire-on
- Significant time saving – shorter down time
- Immense cost saving – no conventional scaffolding needed

Find out more!





Safe &  
fast

## Wrecking

### **A real dream team: Safety and time saving**

Those top priorities do not exclude one another.

With modern wrecking robots we keep your downtime to a minimum while executing this difficult task in a safe manner.

Benefit today with our future-orientated technologies.

# Gunning Technologies

We mastered the art of gunning to excellence. No surprise, as we helped to develop the shotcrete technology to perfection. Today we are leading the European market in all common gunning technologies.

Shotcrete:  
100% quality.  
Only 25% downtime.







## Hot Works

### Video analysis

With the HD video technology we are able to inspect your kiln while running at up to 1.800 °C.

### Hot repair

We are repairing your kiln from the outside while running with our special heat protective equipment. Up to 300 °C, we are also able to go inside your kiln for cleaning and repair works.

Maybe not sexy.  
But always hot.



## Refractory Materials

We always keep several thousand tons of refractory materials, independent of supplier, in store for all critical areas of your aggregates. The reason is simple: for a fast and competent solution of your refractory problem.

Whether material delivery only, or a complete shutdown: You can count on us.

**Our storage locations worldwide:**

- Lemgo | GERMANY
- Rotherham | GREAT BRITAIN
- Mullingar | IRELAND
- Noworossiysk | RUSSIA

We store  
what you need.

## Eberhardt Lime Kilns

For over 150 years the name Eberhardt stands for reliable lime kiln installation in the sugar and soda industry together with the associated limewash and dedusting systems.

Our competencies around lime kilns are unique.  
In short: We love lime!

The leading horse  
in lime production.





## Lime. Kiln. Empowerment.

### **New from old.**

Our kiln specialists are your contact for your dilapidated old one.

After a check-up they will present to you the optimizing options and incredible potentials.

Win-win for everyone: our environment will be protected on a sustainable basis. Your plant will reveal its true potential. And you will receive a fast return on your investment.

Bring your plant to the next level.  
Discover a renewed kiln.

Performance  
Resources  
Environment  
Safety  
Certification



Let's go  
green.

Grow your fuel.  
Use biogas.



## GDS Technology

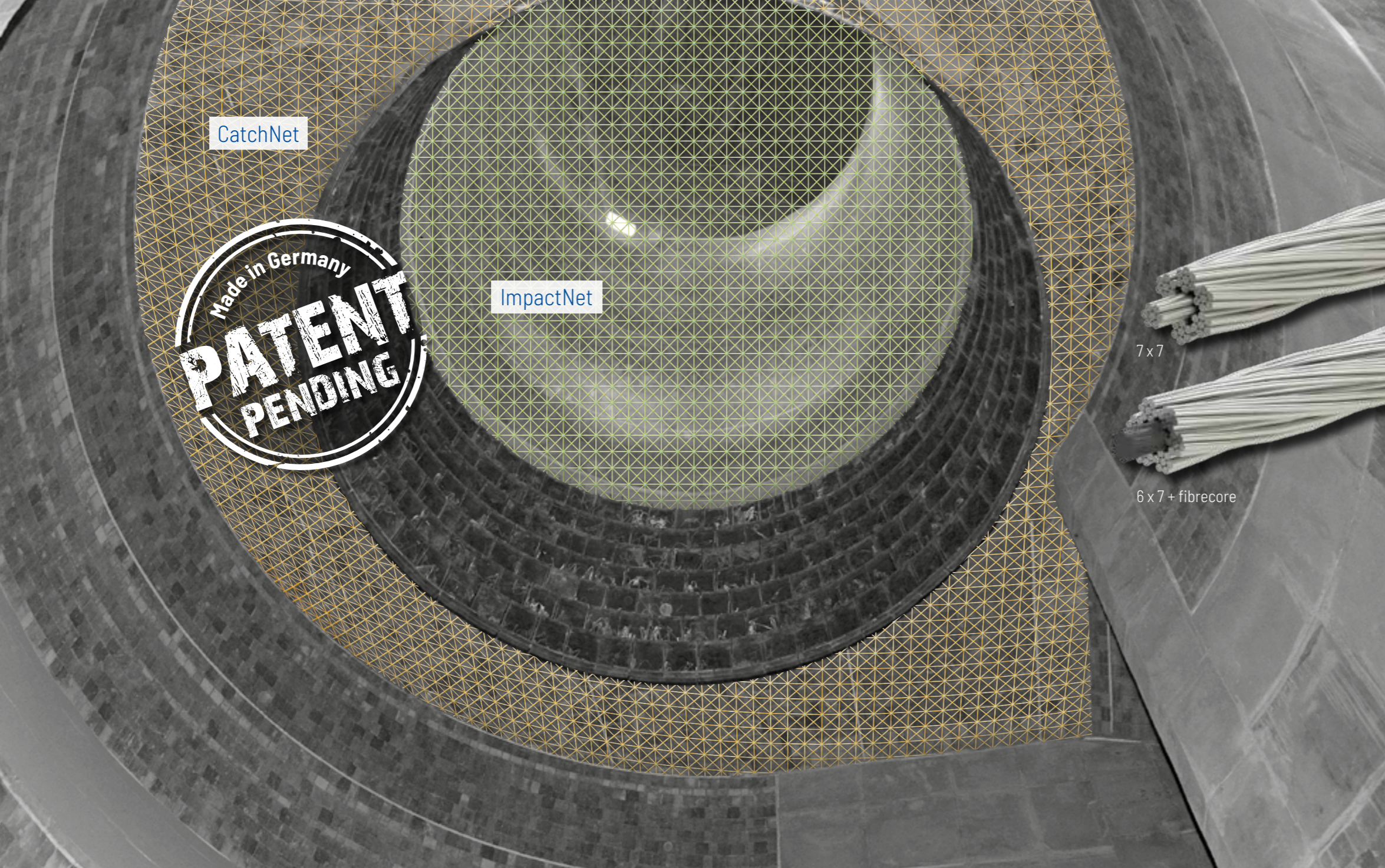
Less CO<sub>2</sub> emissions, sustainable energy sources, more capacity – the future of your lime kiln is already reality. Our Gas Distribution System (GDS) is the unique, patented combustion system for a new state of the art lime and process gas production.

GDS has the capability to convert your existing vertical shaft kiln to an up-to-date combustion with natural gas or biofuels. Come with us and explore the next steps into a green future – tailor-made for your process demands.



Find out more!





## Safety Products

The variety of safety nets, safety cages and specialized work platforms make sure to keep the health and life of all personnel involved safe during a repair.

While continuously developing new safety products, we are happy to train your safety personnel and your employees too.

Safety can be so simple!

Installed  
from the outside.  
Safe on the inside.





## Engineered in Germany

Decades of experience and continuous performance analysis guarantee a best practice foundation at all times for your project and construction planning. To achieve the best possible gain for your production system, our engineers always take care in using the right technological processes as well as refractory components.

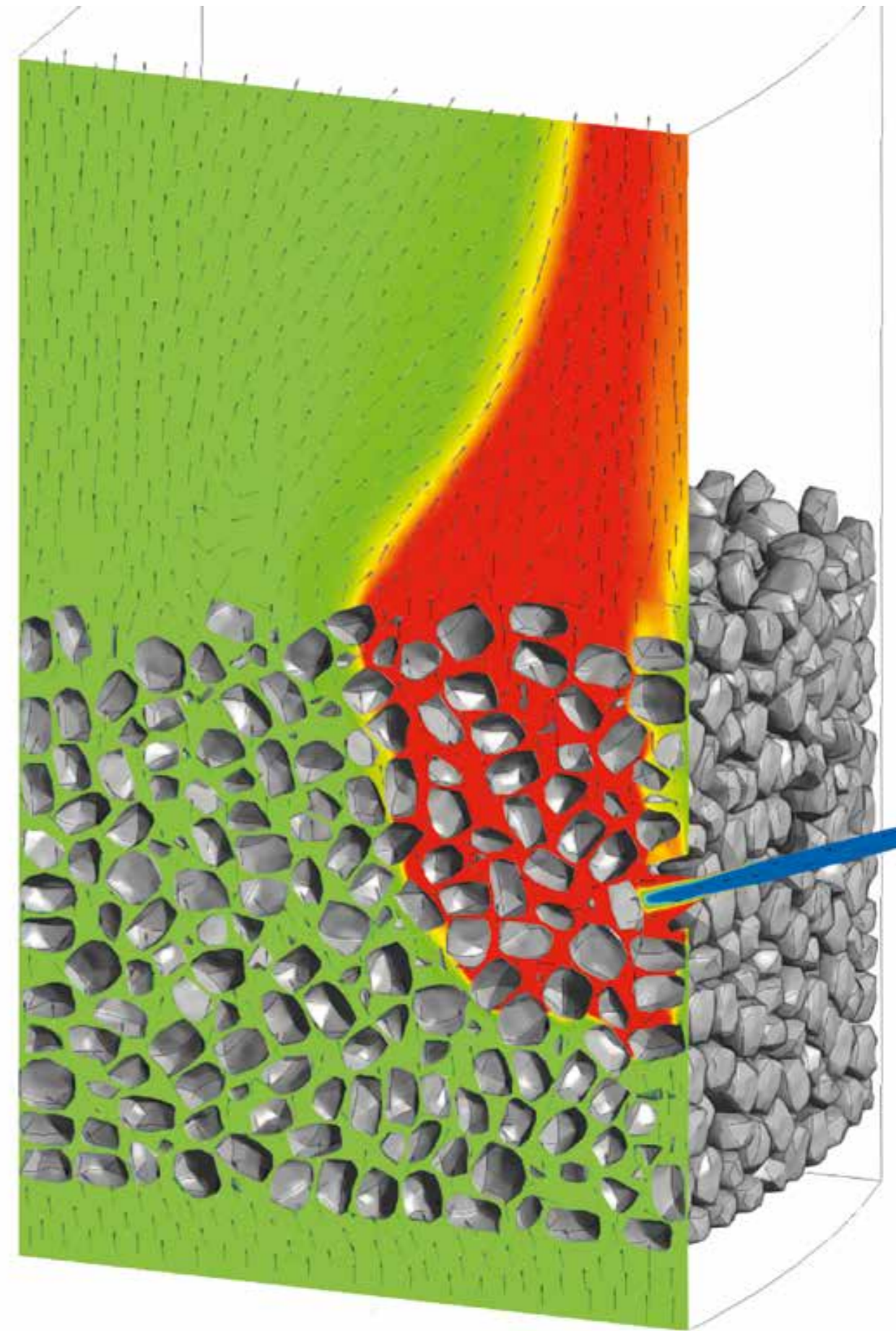
The M-Group's special strength is the cement-, lime- and wood industry.

We plan  
what we build.  
We build  
what we plan.

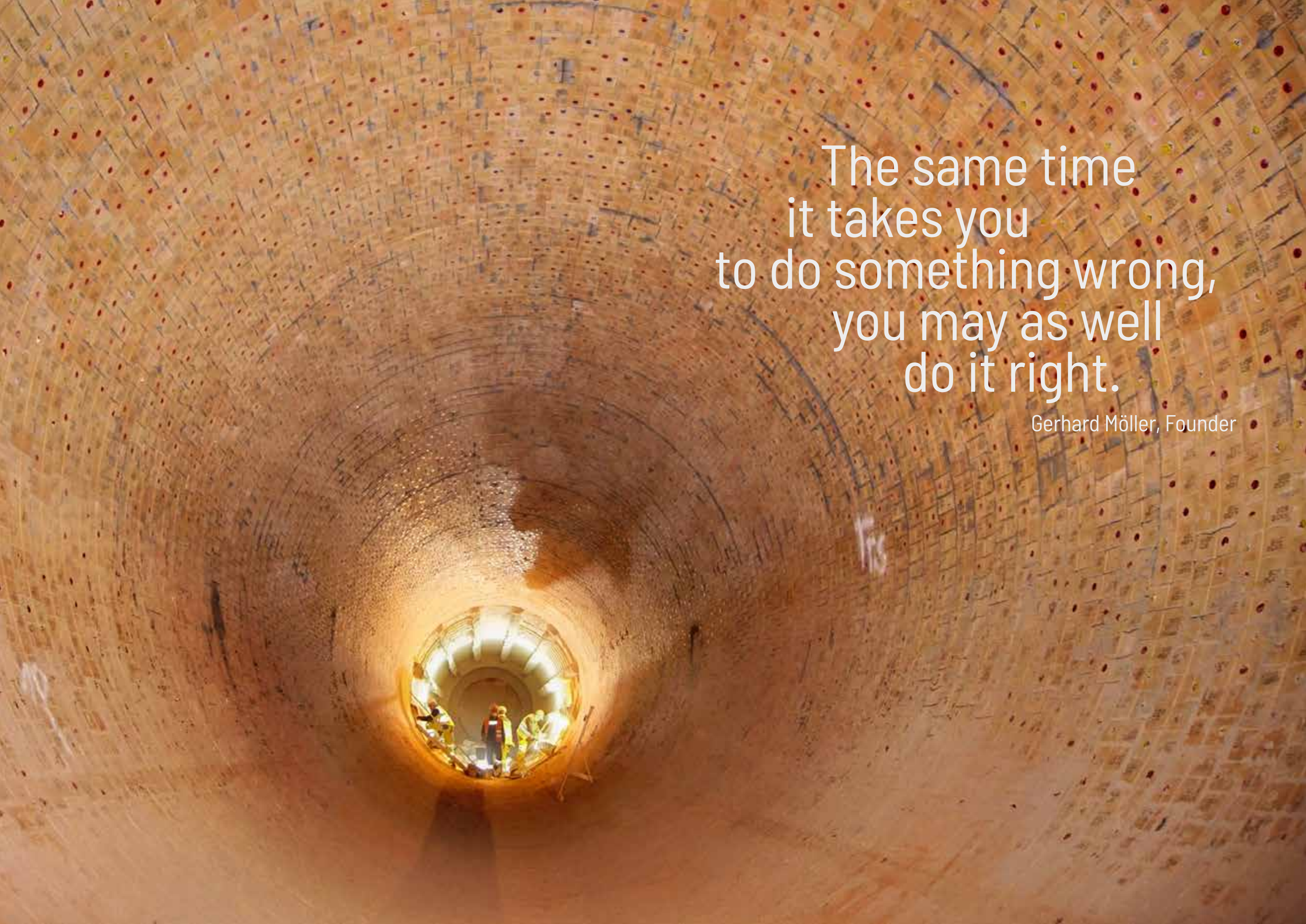
Developed with  
foresight.

## Computer Simulations

We create computer simulations of your kiln and analyse the process parameters. This way possible problems will be detected quickly. With this, the life span of the bricking and the whole kiln can be raised significantly and the process can be executed efficiently.







The same time  
it takes you  
to do something wrong,  
you may as well  
do it right.

Gerhard Möller, Founder

## Operations & Logistics

We are there when our client needs us. Reaching from a perfectly integrated installation team to the required refractory material and correct equipment.

For a smooth operation our multi lingual team takes care of the detailed personnel planning, necessary Visa application and legal compliance requirements. We guarantee that our installation team meets all necessary skills and qualifications.



We exceed your expectations.



## Project Management

Our experienced project managers accompany your project from start to finish. As passionate engineers or versed refractory and plant specialists they burn for the job and your project.

With us you have one contact where all information run together and who is always there for you. Our project manager coordinates all trades involved, customs and logistics formalities, site organisation and is seeing to the compliance with legal aspects and Health & Safety regulations.

This way we can guarantee best quality and on-time completion.

One contact.  
One goal.



No space?  
No problem.  
Your external  
manufacturing  
site with us.

## In-House Manufacture

### XXL-delivery service

At our works in Lemgo we have the possibility to part- or prefabricate for you. Independent of weather we manufacture in heated production areas parts up to 32 tons. A controlled heat-up avoids later damages. Our professional employees take care of even complex parts to arrive with you just-in-time.



## Predictive Maintenance

How about integrating your next repair neatly into your business schedule?

With detailed data collection using modern technology, we can give you the tools to plan your next shutdown effectively. This is reducing costs, expenses and downtime.

Enter a new era  
to minimize downtime.





See your plant  
with new eyes.

## 3D LaserScan

The 3D LaserScan-analysis sets new standards for the wear analysis, project planning and during any other phase of your repair.

Within a short period of time the 3D scanner will provide you with exact, three-dimensional pictures showing the condition of your plant. Together with our experts, you can now prioritise measures and adapt these to your time plan.

Discover the versatile possibilities and operating range of the 3D LaserScan during a 360°  $\alpha$ -Check!

Find out more!





## Support & Service

It is good to know that in case of emergency the M-Group will support you with expertise and materials everywhere.

Our highly qualified engineers, supervisors and installation teams are available worldwide to provide support, assistance and repairs 24/7 – even at short notice.



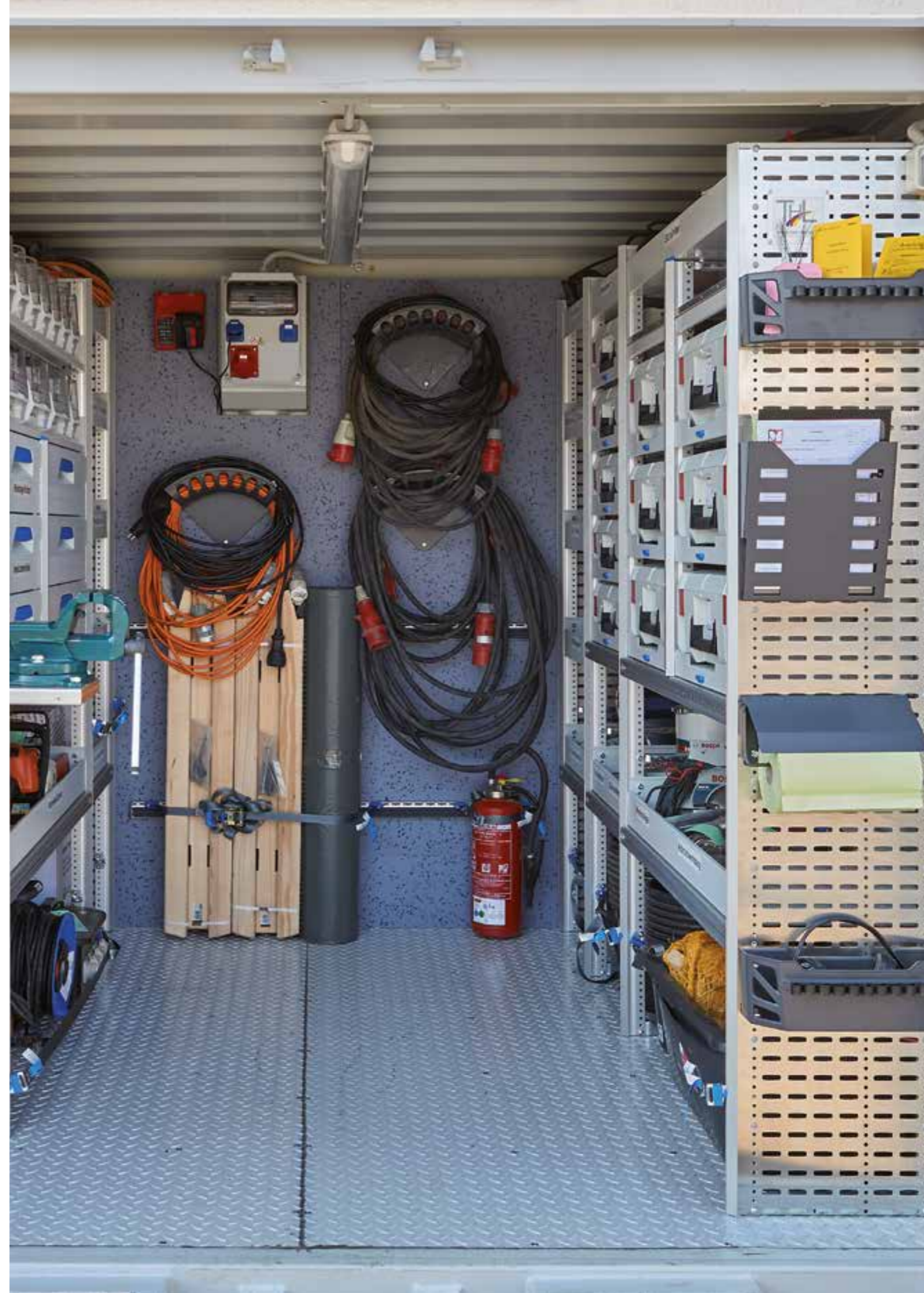
Always on call  
for you.

Always ready  
for take-off.

## Toolbox

To our deployment destinations we are taking our specially designed "Toolbox" containers.

These mobile machine and equipment storage systems are a special M-Group standard and unique to us. Our teams will find everything in this container needed for a smooth completion.





A successful project completion comes always with a professional finish.

## Analysis – Planning – Documentation

Together with the usual acceptance of work you will receive a complete documentation of your project. We offer a digital solution tailored to your requirements with all data and multi-lingual if you choose so.

This documentation makes the executed installation transparent and is a perfect tool for future planning.



Your kiln  
is our passion.



# Prepared for tomorrow.

## Training Our Future

- Craftsmanship
- Administration
- Future technologies

We have always been one of the largest organisations in training furnace and chimney builders. This fills us with pride! The same goes for our trainees who learn this special trade thoroughly and usually belong to the top of their class.

Furthermore, we offer apprenticeships for commercial jobs and training "on the job" for lateral entries.

Moreover we are pioneers in developing new job profiles. To remain fit for the future, we are already training our employees for the requirements of tomorrow.





## M-Academy

Our M-Academy was specifically established for continuous training programs around the refractory industry and is hosting workshops for our employees as well as external partners. All courses are able to be executed as in-house training at your location if so desired.

From time to time we are hosting conferences on different issues with interesting keynote speakers.

Stagnation  
is regression.  
Lifelong learning  
a must.

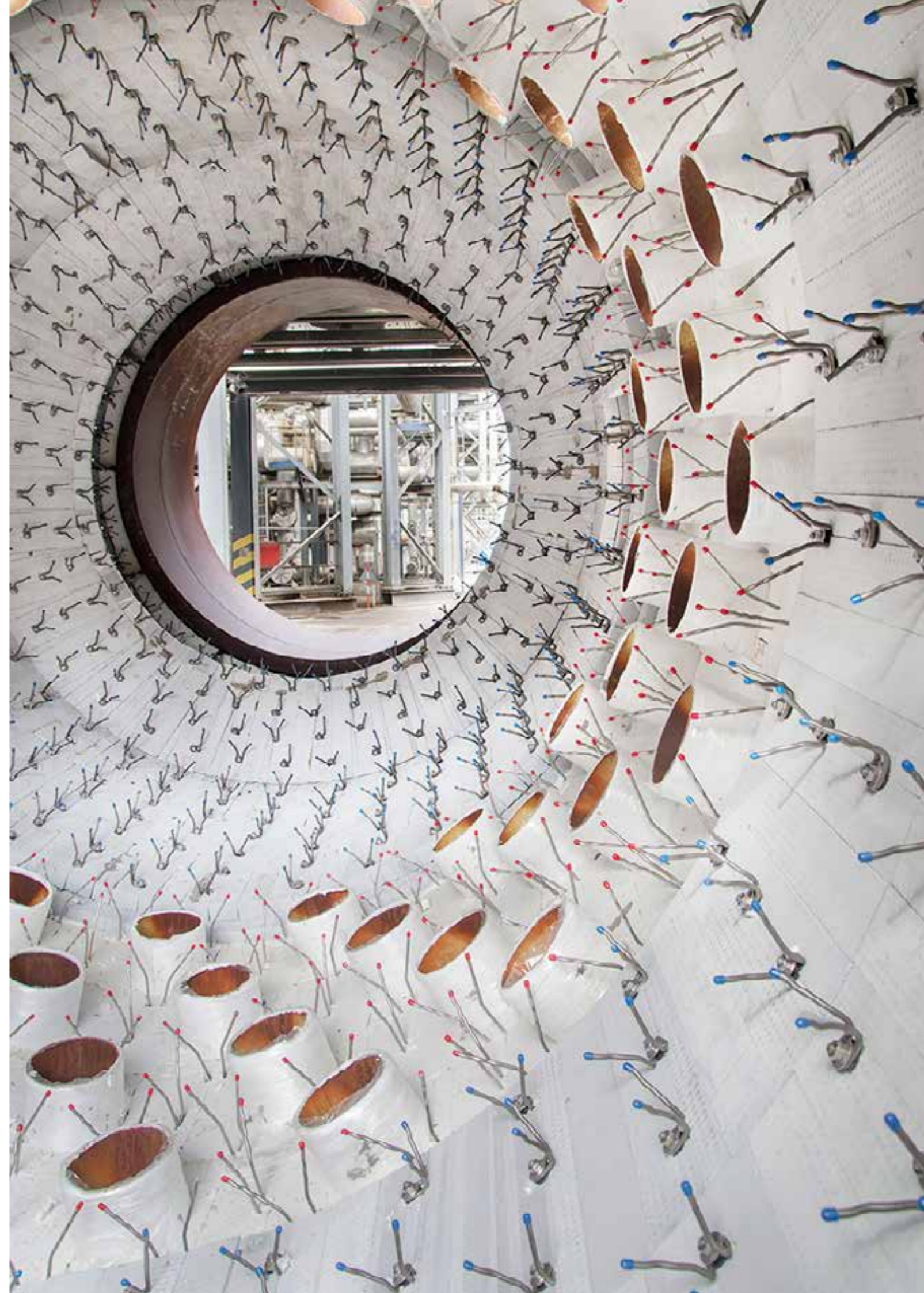
„I would like to express  
my respect and  
gratitude to the work  
of your team.“

## Quality Management

**Of course we are certified DIN 9001:2018.**

Our self-conception demands that we keep developing  
our products, processes and services.

Our goal is for our clients to keep on recognizing our  
top-performance in all areas.





## GROUP

-  **Möller**
-  **Möller PCI**
-  **Möller Polska**
-  **Möller Portuguesa**
-  **Eberhardt**
-  **RefraSolid**
-  **RefraVision**



From left: Klaus Röpke, Anke Röpke, Stefan Sasse

## Company

Dipl. Ing. Gerhard Möller founded Möller Feuerungsbau GmbH in 1966 after taking over chimney constructor Ferbeck & Cie and leading it into the future. He consequently re-structured the company to an international refractory and lime expert. In the years to follow, the business areas have been extended with safety and future technologies.

The M-Group is a typical family business in which the owners feel strongly connected to their employees and traditional values as well as to the challenges of a future-oriented company. The management is carried out by Stefan Sasse as Managing Director and is supported in the best possible way by the shareholders Anke, née Möller, and Klaus Röpke.

Business partners and clients around the world value the competencies, know-how as well as reliability and loyalty of the niche specialist from Lemgo.



**Our International locations:**

- Lemgo | GERMANY
- Swansea | GREAT BRITAIN
- Rotherham | GREAT BRITAIN
- Westmeath | IRELAND
- Katowice | POLAND
- Caldas da Rainha | PORTUGAL

Always nearby.



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**M-Group** | Am Bauhof 17 - 21 | 32657 Lemgo | GERMANY  
Tel.: +49 5261 2507 - 0 | Fax: +49 5261 2507 - 23 | [Info@the-M-Group.com](mailto:Info@the-M-Group.com) | [www.the-M-Group.com](http://www.the-M-Group.com)