







Product information

# CONVENTIONAL MARKING TECHNOLOGY

-  Conventional marking technology
-  Scribe/stylus marking technology
-  Type wheel marking technology
-  Laser technology
-  Traceability
-  Special-purpose machines



# LEAVING A LASTING MARK!



MORE THAN  
**70**  
YEARS  
MADE IN GERMANY

◆ **TODAY**  
More than 70 years of experience in the development and manufacture of standard marking systems and individual special-purpose machines. The superior technology, constant innovations and the consistent focus on growth markets assure the future success of the company.

◆ **1952**  
Founding

◆ **1981**  
Business takeover by Lothar von Arnim

◆ **1985**  
Worldwide sales of type wheel technology (BORRIES patent)

◆ **1995**  
Delivery of the first scribe marking system with camera system

◆ **2000**  
Delivery of the first DataMatrix marking system and reading sensors

◆ **2010**  
Introduction of highly dynamic drive technology and a more powerful, modular control concept

◆ **2014**  
World première: OCV, automatic reading and evaluation in 3-shift production operations

◆ **2018**  
Complete takeover of the fixture and plant constructor EnKo Staudinger GmbH in Augsburg

◆ **2022**  
Presentation of the small and lightweight 310 marking system

◆ **2023**  
Development of our own new laser generation according to customer requirements

## Marking: Then. Now. In future.

Are the direct, the material displacing or permanent marking of your parts or components a central topic? Are you looking for a sparring partner who can help in advancing developments for the marking of your products in future?

Then you have come to the best possible address. Founded in 1952, we can now look back at more than 70 years of experience in the technical environment of marking systems.

The fact that we, as a traditional company, place importance on a trusting and cooperative partnership speaks for us and our values. Just like our understanding of reliability, punctuality and flexibility. And it goes almost without saying that, for all of our claims, we are also ISO-certified.

# REMARKABLE BASICS



## If everything is to stay the way it is: CONVENTIONAL MARKING TECHNOLOGY

If you need consistent texts and consecutive numbering, this is the recommended marking technology. You can look forward to very short marking times, large marking depths and low investment.



## Quick off the mark: SCRIBE/STYLUS MARKING TECHNOLOGY

Does your focus lie on maximum flexibility in marking texts, font heights and widths as well as the marking depth on your product? Then scribe and stylus marking technologies are the optimum solutions for rapid marking with alphanumeric characters, logos or 2D codes. By the way: Thanks to the low application of force, this technology is ideally suited for solid, hollow and even sensitive parts.



## We like to spin the wheel sometimes: TYPE WHEEL MARKING TECHNOLOGY

Embossing recessed or raised markings in surfaces while marking variably, quickly and quietly - these are the features of our patented „typewriter on metal“.



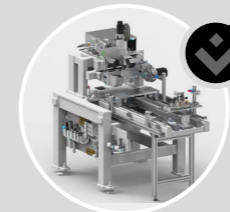
## The powerful gentle one: LASER

High writing speeds are one thing, and gentle component handling is the other. If you want both and still want to remain flexible, you can do everything right with a laser. The short time requirement and the variability in character representation or component properties come free of charge.



## Keeping things on track: DATA MATRIX CODE/TRACEABILITY

Track & Trace and identification or traceability are the topics of the day - in virtually all industries. Make it easy for yourself as well: use a DataMatrix code (DMC) on the component or workpiece. We also have suitable systems for this.



## Nothing off the shelf: SPECIAL SOLUTIONS

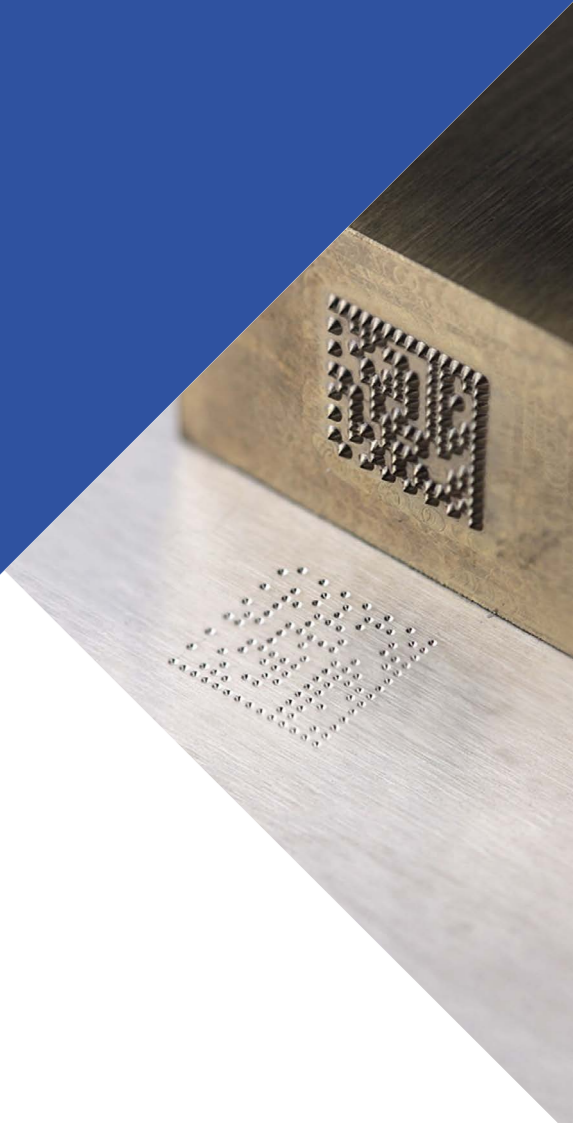
There is nothing that does not exist (yet). If you nevertheless have very special requirements for marking or a marking system, we can configure and combine marking systems exactly as your process requires – our know-how in the field of fixture and plant or special machine construction makes it possible.



**WE HAVE  
LEFT A MARK  
HERE WITH  
OUR  
TECHNOLOGIES:**

- ◆ Automotive industry
- ◆ Medical technology
- ◆ Rail industry
- ◆ Aerospace industry
- ◆ Steel industry
- ◆ Foundries

Fast and efficient:  
**TOOLS AND MACHINES FOR  
CONVENTIONAL MARKING  
TECHNOLOGY**



The tools, devices and machines of conventional marking technology permanently mark workpieces made of solid material, such as metal and plastic. If consistent texts, consecutive numbering and short marking times are required, they are used for control marking, tracking or assignment of components.

We offer marking equipment and machines with marking tools and devices from simple standard designs up to individual, fully automatic special machines.

**We promise you:**

- ◆ Very short marking times
- ◆ Manageable investment
- ◆ Large marking depths possible



Link to BORRIES marking tools

## DISTINCTIVE PERFORMERS MARKING TOOLS

### On your mark, insert, go. STEEL TYPES



Steel types can be combined in the type holder or in special numbering heads.

- ◆ Engraving similar to DIN 30640
- ◆ Nickel-plated version
- ◆ Available individually or complete in type case with a character height from 1 to 5 mm
- ◆ Engravings in stock: A-Z; 0-9; . (dot); , (comma); - (hyphen); / (slash)

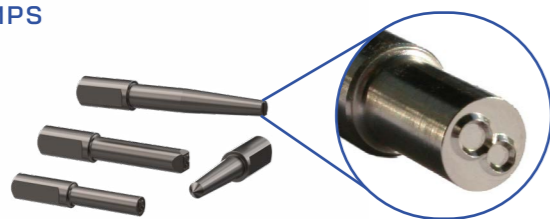
### If you want to be individual: ENGRAVED STAMPS



Engraved stamps are available either as single stamps, with multi-digit engravings or with special characters, logos, etc.

- ◆ In medium, semi-narrow and narrow font versions
- ◆ Pointed, flat or perforated engraving

### The customised loner: PIN STAMPS



The dimensions, shape and engraving design of the pin stamps are manufactured according to customer specifications.

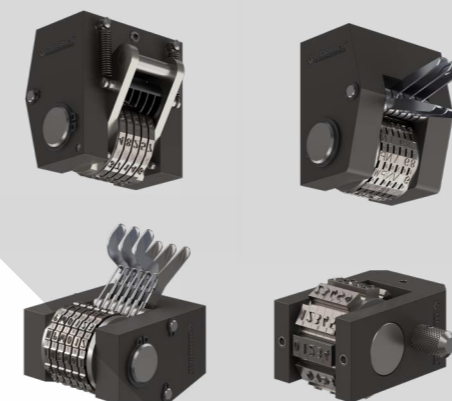
### Become a typesetter: TYPE HOLDER



The text to be marked is generated by inserting different steel types into the type holder. This can be changed as required.

- ◆ Standard type holder: Character heights from 1 to 5 mm; single and multi-line
- ◆ Round type holder THR for marking in a circular arc on flat surfaces
- ◆ Circle segment type holder THR-S for marking in a specific partial circular arc on flat surfaces
- ◆ Special type holders on request

### Just spin around: NUMBERING HEADS



Borries numbering heads are used to mark consecutive numbers, series and model names.

- ◆ ANPW numbering head: Automatic advancing after each marking stroke; standard font heights 1-8 mm
- ◆ VNPW numbering head: Manual locking of the wheel in the required position; standard font heights 1-8 mm
- ◆ TNPW numbering head: Adjustment of the wheels by manually pressing the sensor levers; standard font heights 1-8 mm
- ◆ MNPW numbering head: Marking head can be locked manually using bolts; font heights 1-4 mm
- ◆ Special versions on request

### The all-puncher: BM 8 HANDHELD CENTRE PUNCH



Preferably used in the areas of punching, control stamping, marking and numbering.

- ◆ Impact power infinitely adjustable
- ◆ Completely backlash-free

## THE MAIN PERFORMERS MARKING MACHINES

### The easy ones: HANDHELD STAMPING UNITS



If you want to carry out the punching, control stamping and marking flexibly, handheld stamping devices are the perfect choice for you. These devices are used as handheld versions and also as built-in devices. The easy handling, versatile application options and the quick and easy interchangeability of punch inserts and stamping tools make them your indispensable tools – both in the craft sector and in industry.

- ◆ Pneumatic
- ◆ Low pressure forces required to trigger impact
- ◆ Backlash-free
- ◆ Impact power infinitely adjustable

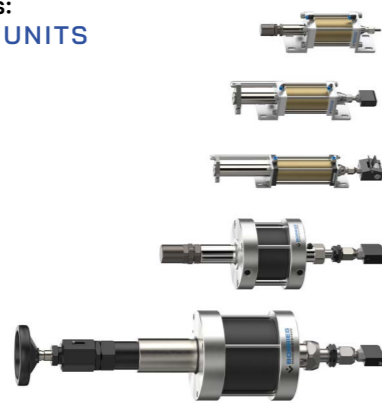
- ◆ BM 10 (impact force 10 kN)
- ◆ BM 22 (impact force 20 kN)
- ◆ BM 25 (impact force 35 kN)

#### VARIATIONS



[Link to BORRIES handheld stamping units](#)

### The adaptable ones: BUILT-IN IMPACT UNITS



Are you looking for versatile solutions? Then the built-in impact units could be just the thing for you. They are used in transfer lines, rotary indexing systems and automatic testing machines. What is particularly notable: The large usable stroke allows you to easily mark workpieces of different heights without the need for adjustment. You also have the option of continuously adjusting the impact power entirely to your needs.

- ◆ Can be used for almost all plastically deformable materials
- ◆ Applicable tools: Pin stamps, steel types/engraved stamps in type holders or numbering heads
- ◆ Impact power infinitely adjustable
- ◆ Large usable stroke (from 22 to 150 mm available depending on the version)

- ◆ BM 12 PN (impact force approx. 2 kN bis 6 kN\*)
- ◆ BM 22 PN\*\* (impact force approx. 18 kN)
- ◆ BM 21 PN (impact force approx. 5 kN bis 37 kN\*)
- ◆ BM 25 PN\*\* (impact force approx. 35 kN)
- ◆ BM 35 PN (impact force approx. 30 kN bis 113 kN\*)

\* Impact release by means of spring, force is dependent on the impact spring used  
\*\* Impact release via compressed air



[Link to BORRIES built-in impact units](#)

### The independent ones: STAMPING MACHINES



Do you need stamping machines that can be used in workshops as well as in small and medium series production? Then you will be impressed by the simple operation, sophisticated design and the wide range of marking stamps and marking tools. These properties allow a variety of universal uses.

- ◆ High impact power with little effort
- ◆ Manual or pneumatic
- ◆ Impact power infinitely adjustable

- ◆ BM 11 (impact power approx. 2 kN to 6 kN, manual)\*
- ◆ BM 12 (impact power approx. 2 kN to 6 kN, pneumatic)\*
- ◆ BM 18 (impact power approx. 5 kN to 37 kN, manual)\*
- ◆ BM 21 (impact power approx. 5 kN to 37 kN, pneumatic)\*

\* Impact power (depending on the impact spring used and the impact strength set)



[Link to BORRIES stamping machines](#)



## THE MAIN PERFORMERS MARKING MACHINES

### The quiet ones: PNEUMO-HYDRAULIC MARKING MACHINES

Does your marking require high marking forces? Then pneumo-hydraulic marking machines are ideal for you. We supply these machines in different versions, either as complete systems with column and C-bracket frames or as built-in units for your transfer lines and rotary indexing systems.



PHP 80 with two-hand control

- ◆ Built-in pressure intensifier that generates high marking forces in a short distance
- ◆ The noise level is always less than 75 dB(A)
- ◆ Type holders with steel types, engraved stamps or numbering heads are used
- ◆ Marking of almost all plastically deformable materials
- ◆ Power levels from 44 to 159 kN available

### VARIATIONS

- ◆ PHP 80 (Max. marking force at 6 bar air pressure: 91 kN, max. marking force at 10 bar air pressure: 159 kN)



[Link to BORRIES](#)  
pneumo-hydraulic marking machines

### The robust ones: ROLL MARKING MACHINES

If you want to mark solid and hollow round parts, roll marking machines are exactly the right thing for you. You can also mark flat workpieces using appropriate devices and tools.



BM 73 EL

- ◆ Permanently high marking power with little effort
- ◆ Easily adjustable marking length and depth
- ◆ Large workpiece throughput possible
- ◆ Easy adjustment of the workpiece diameter and marking depth
- ◆ Electrically or manually
- ◆ BM 73 H (workpiece diameter\* with PW\*\*: max. approx. Ø 94 mm, with TH\*\*: max. approx. Ø 127 mm, manual)
- ◆ BM 73 EL (workpiece diameter\* with PW\*\*: max. approx. Ø 94 mm, with TH\*\*: max. approx. Ø 127 mm, electrical)
- ◆ BM 76 EL (for variable workpiece diameter\*, electrical, character height 1-5 mm)
- ◆ BM 79 EL (for variable workpiece diameter\*, electrical, character height from 5 mm)

\*Theoretical workpiece diameter, depending on tool and unit  
\*\*PW = numbering head, TH = type holder



[Link to BORRIES](#)  
roll marking machines

## WE CAN ALSO BE DIFFERENT!

In the area of special solutions or special machine construction, we have a wide range of products ready for you. The marking of special characters, DataMatrix codes or chassis numbers as well as the marking of complex components can be implemented using various marking technologies: From conventional marking technology to flexible, modular scribing and stylus marking machines to customised marking solutions for integration into the manufacturing process.

Since we regard ourselves as your system partner and that everything comes from a single source, we can respond to any customer requirements in the best possible way and in the shortest possible time, especially in the case of special machines.



BM 73 EL with steep conveyor and separation with part recognition

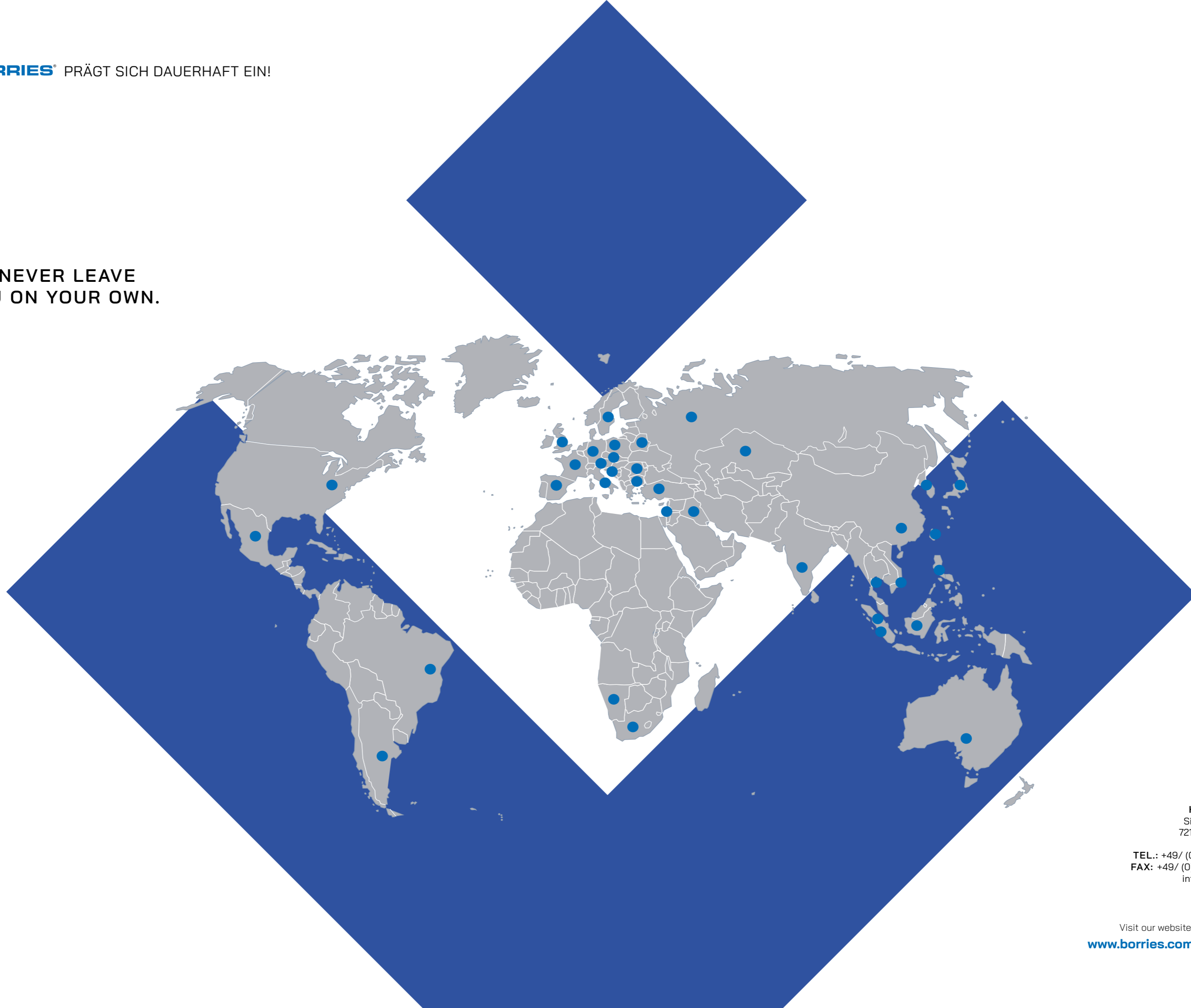


[Link to BORRIES](#)  
special solutions

Special solutions are easy for us.  
Visit our website or give us a call.  
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**BORRIES**® PRÄGT SICH DAUERHAFT EIN!

WE NEVER LEAVE  
YOU ON YOUR OWN.



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